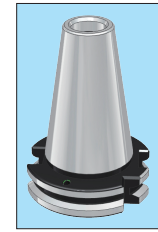
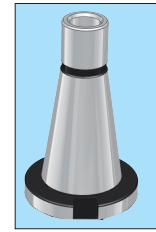


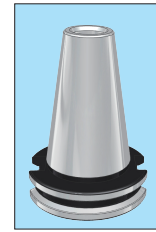
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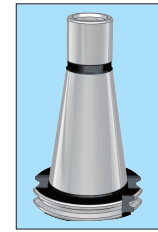
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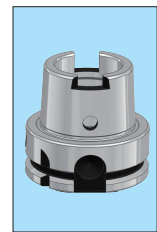
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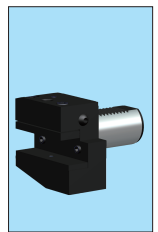
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GOST



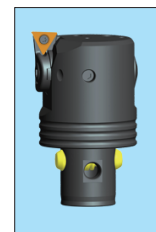
HSK



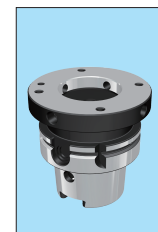
VDI



ACCESSORY



BORING



SPECIAL



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Tooling System

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JIS B 6339
BT Tool Holders

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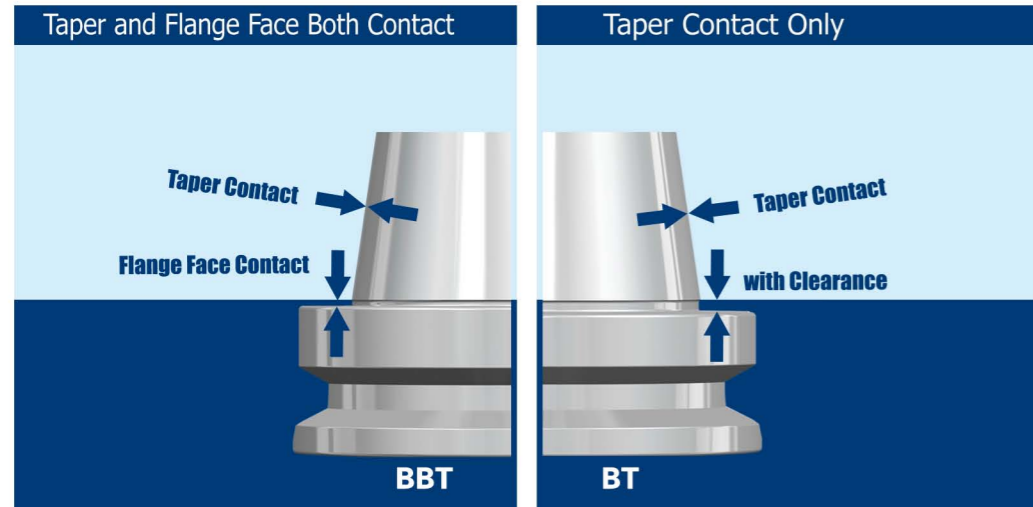
BBT
BT

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BBT DualDrive (Double Contact) Tool Holders

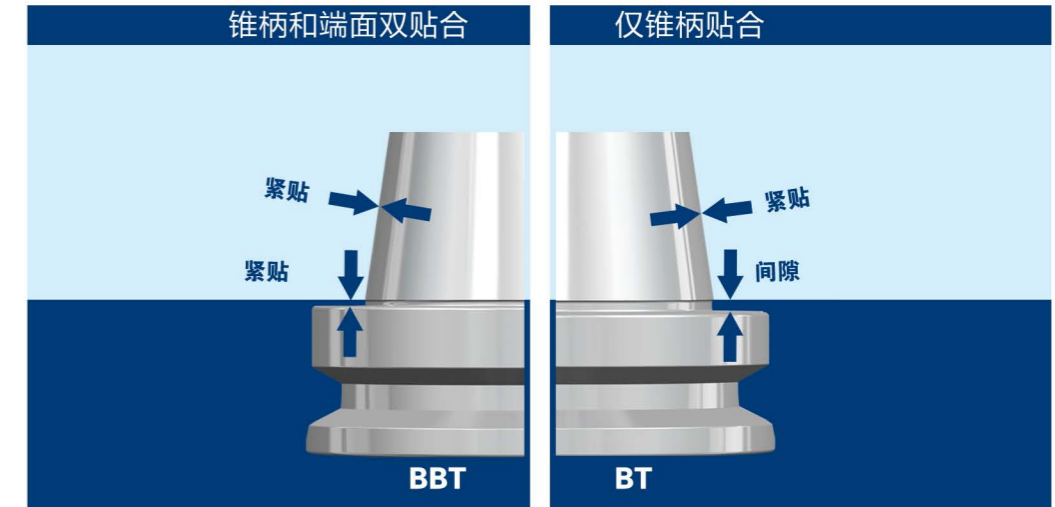


Taper and Flange Face Dual Contact System Advantages:

- * Improve tool holder stability when high speed working.
- * Improve workpiece surface finish.
- * Improve working dimension accuracy.
- * Improve ATC repeatability.
- * Improve the roundness when boring operation.
- * Extend cutting tool life.

ORDER SPECIFICATION:
 PLEASE CHANGE BT SIZES TO BBT ACCORDINGLY.
 PLEASE ORDER BBT SPINDLE MACHINING CENTERS FOR BETTER PERFORMANCE.

BBT 双接触刀柄



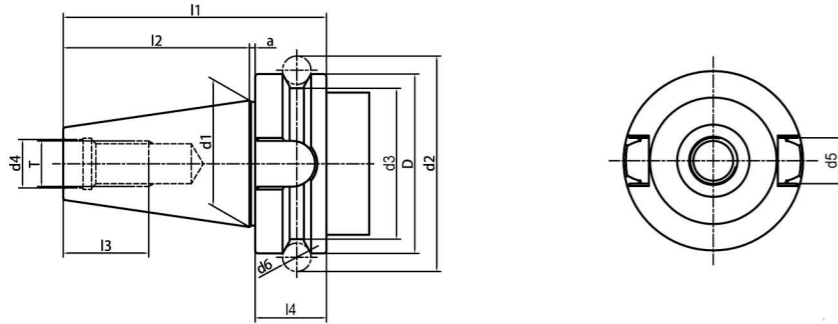
使用 BBT 双接触刀柄优势：

- * 高速加工时提高刀柄稳定性；
- * 提高工件表面光洁度；
- * 提高加工精度；
- * 提高 ATC 的重复精度；
- * 提高镗孔加工圆度；
- * 增加刀具使用寿命。

订购说明：
 请把 BT 刀柄型号里的 BT 改为 BBT 即可；
 为了更好的使用效果，请订购带 BBT 主轴的加工中心。

BT Taper Standard BT 锥柄标准

JIS B 6339



























Size	D	d1	d2	d3	d4	d5	d6	l1	l2	l3	l4	d	T
BT30	46	31.75	56.144	38	12.5	16.1	8	70.4	48.4	24	20	2	M12*1.75
BT40	63	44.45	75.679	53	17	16.	10	92.4	65.4	30	25	2	M16*2.0
BT50	100	69.85	119.019	85	25	25.7	15	139.8	101.8	45	35	3	M24*3.0

Taper standard: JIS B 6339
Material: Alloyed case hardened steel
Surface Treatment: Blackening and Bright
Taper tolerance: <AT3
Hardness: HRC 58-62
Carbon depth: 0.8±0.2mm
Surface Roughness: Ra<0.005mm
Balancing: G6.3/15000; G2.5/25000
Cooling: AD; AD/B can be made by request.



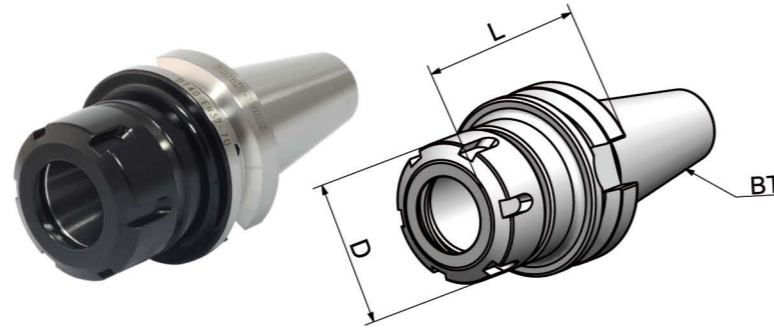
BBT/BT

	ER Collet Chuck ----- 05 ER 弹簧夹头刀柄 ----- 05		GER Collet Chuck ----- 09 GER 弹簧夹头刀柄 ----- 09		Power Milling Chuck --10 强力铣刀柄 ----- 10
	OZ Collet Chuck ----- 11 OZ 夹头刀柄 -----11		SKS Collet Chuck ----- 12 SKS 高速筒夹刀柄 ----- 12		TG Collet Chuck -----13 TG 超强力刀柄 ----- 13
	Precision Screw Collet Chuck - 14 PSC 后拉刀柄 ----- 14		Side Cutter Arbor ----- 15 侧铣刀柄 ----- 15		Face Mill Holder Inch --17 英制面铣刀 ----- 17
	Face Mill Holder ----- 18 面铣刀柄 -----18		Combi Shell Mill Holder --- 20 混合插入式铣刀柄 ----- 20		End Mill Holder----- 21 侧固刀柄 ----- 21
	Morse Taper Adapter ---- 24 带扁尾莫式刀柄 ----- 24		Morse Taper Adapter ----- 25 带螺纹孔莫式刀柄 ----- 25		Tool Holder Adatper Sleeve -- 26 转换刀柄 ----- 26
	Drill Chuck Adapter ---27 钻接杆 -----27		APU Drill Chuck Holder --- 28 APU 钻夹头刀柄 ----- 28		Precision Drill Chuck Holder --- 29 精密钻夹头刀柄 ----- 29
	Quick Change Tapping Chuck -- 30 弹性快换攻丝刀柄 ----- 30		Shrink Fit Chuck ----- 31 热缩刀柄 ----- 31		Screw-in Milling Cutter Holder -- 34 SOM 锁牙刀柄 ----- 34
	Boring Bar Blank ----- 37 基础柄 ----- 37		Runout Adjustable Flange Adapter ----- 38 可调节精度法兰刀柄 ----- 38		Alignment Tool for ATC Arm -- 39 调整机械用手用组合模具 ----- 39

ER Collet Chuck with UM Nut DIN6499 ER 弹簧夹头刀柄

JIS B 6339

Runout: 0.003 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM;
 Balancing G2.5 can be made by request.
Usage: for clamping tools with straight shank in collets DIN 6499.



Size	D	L	Capacity
BT30-ER16UM-70	28	70	1-10
BT30-ER25-70	42	70	2-16
BT30-ER32-70	50	70	2-20
BT30-ER40-80	63	80	3-26
BT30-ER16UM-100	28	100	1-10
BT30-ER25-100	42	100	2-16
BT30-ER32-100	50	100	2-20
BT40-ER16UM-63	28	63	1-10
BT40-ER20UM-70	35	70	1-13
BT40-ER25-70	42	70	2-16
BT40-ER32-70	50	70	2-20
BT40-ER40-80	63	80	3-26
BT40-ER16UM-100	28	100	1-10
BT40-ER25-100	42	100	2-16
BT40-ER32-100	50	100	2-20
BT40-ER40-100	63	100	3-26
BT40-ER16UM-160	28	160	1-10
BT40-ER25-160	42	160	2-16
BT40-ER32-160	50	160	2-20
BT40-ER40-160	63	160	3-26

ER Collet Chuck with UM Nut DIN6499 ER 弹簧夹头刀柄

JIS B 6339

Runout: 0.003 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM;
 Balancing G2.5 can be made by request.
Usage: for clamping tools with straight shank in collets DIN 6499.

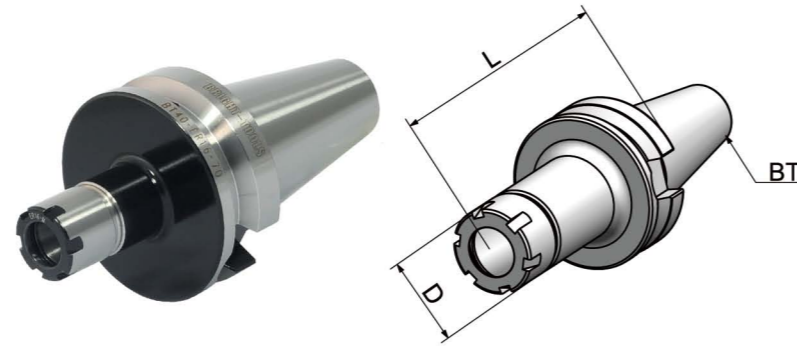


Size	D	L	Capacity
BT50-ER16UM-70	28	70	1-10
BT50-ER25-70	42	70	2-16
BT50-ER32-70	50	70	2-20
BT50-ER40-80	63	80	3-26
BT50-ER16UM-100	28	100	1-13
BT50-ER25-100	42	100	2-16
BT50-ER32-100	50	100	2-20
BT50-ER40-100	63	100	3-26
BT50-ER16UM-160	28	160	1-13
BT50-ER25-160	42	160	2-16
BT50-ER32-160	50	160	2-20
BT50-ER40-160	63	160	3-26
BT50-ER32-200	50	200	2-20
BT50-ER40-200	63	200	3-26

ER Collet Chuck with Mini Nut DIN6499 ER 弹簧夹头刀柄

JIS B 6339

Runout: 0.003 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM;
 Balancing G2.5 can be made by request.
Usage: for clamping tools with straight shank in collets DIN 6499.

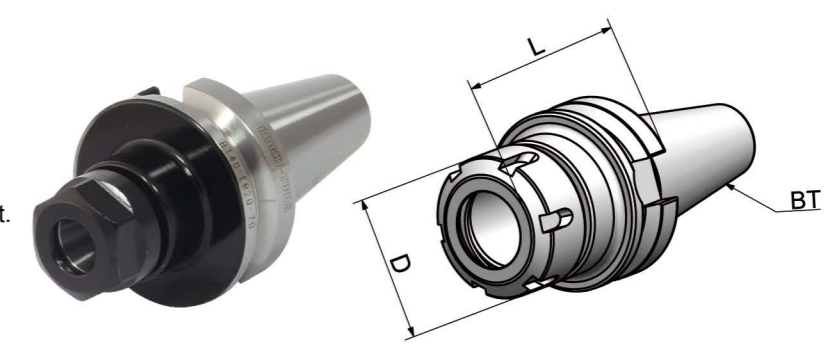


Size	D	L	Capacity
BT40-ER11M-70	16	70	1-7
BT40-ER16M-70	22	70	1-10
BT40-ER20M-70	28	70	1-13
BT40-ER25M-70	35	70	2-16
BT40-ER11M-100	16	100	1-7
BT40-ER16M-100	22	100	1-10
BT40-ER20M-100	28	100	1-13
BT40-ER25M-100	35	100	2-16
BT40-ER11M-160	16	160	1-7
BT40-ER16M-160	22	160	1-10
BT40-ER20M-160	28	160	1-13
BT40-ER25M-160	35	160	2-16
BT50-ER16M-100	22	100	1-10
BT50-ER20M-100	28	100	1-13
BT50-ER25M-100	35	100	2-16
BT50-ER16M-160	22	160	1-10
BT50-ER20M-160	28	160	1-13
BT50-ER25M-160	35	160	2-16

ER Collet Chuck with Hex Nut DIN6499 ER 弹簧夹头刀柄

JIS B 6339

Runout: 0.003 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM;
 Balancing G2.5 can be made by request.
Usage: for clamping tools with straight shank in collets DIN 6499.

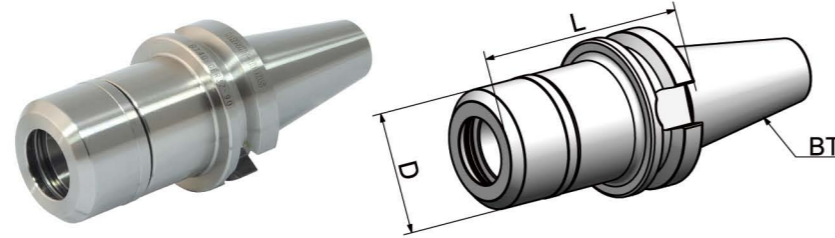


Size	D	L	Capacity
BT30-ER16A-60	28	60	1-10
BT30-ER20A-60	36	60	1-13
BT30-ER16A-100	28	100	1-10
BT30-ER20A-100	36	100	1-13
BT40-ER16A-60	28	60	1-10
BT40-ER20A-70	36	70	1-13
BT40-ER16A-100	28	100	1-10
BT40-ER20A-100	36	100	1-13
BT40-ER16A-150	28	150	1-10
BT40-ER20A-150	36	150	1-13
BT50-ER16A-70	28	70	1-10
BT50-ER20A-70	36	70	1-13
BT50-ER16A-100	28	100	1-10
BT50-ER20A-100	36	100	1-13
BT50-ER16A-150	28	150	1-10
BT50-ER20A-150	36	150	1-13

ER Collet Chuck with GER Nut DIN6499

ER 弹簧夹头刀柄

Runout: 0.003 mm
Cooling: AD
Balancing: G2.5/25000 RPM;
Usage: for clamping tools with straight shank in collets DIN 6499.

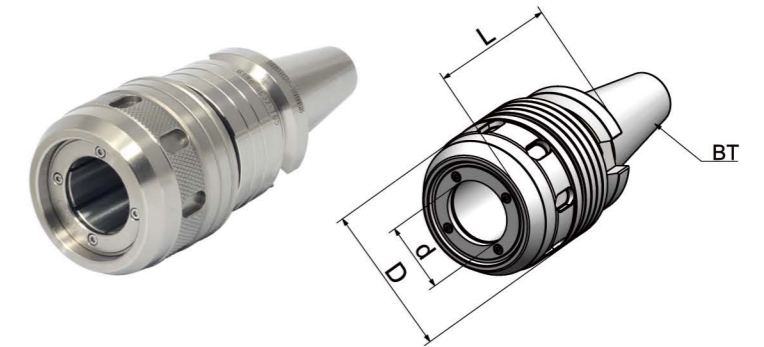

JIS B 6339

Size	D	L	Capacity
BT30-GER16-60	30	60	1-10
BT30-GER20-60	35	60	1-13
BT30-GER25-60	40	60	2-16
BT30-GER32-70	48	70	2-20
BT40-GER16-70	30	70	1-10
BT40-GER20-70	35	70	1-13
BT40-GER25-70	40	70	2-16
BT40-GER32-70	48	70	2-20
BT40-GER16-100	30	100	1-10
BT40-GER20-100	35	100	1-13
BT40-GER25-100	40	100	2-16
BT40-GER32-100	48	100	2-20
BT50-GER16-100	30	100	1-10
BT50-GER20-100	35	100	1-13
BT50-GER25-100	40	100	2-16
BT50-GER32-100	48	100	2-20

Power Milling Chuck

强力铣刀柄

Runout: 0.01 mm
Cooling: AD
Balancing: Non-Balance;
 Balancing G6.3 can be made by request.
Usage: for clamping tools with straight collets or clamping same diameter cutting tools directly.

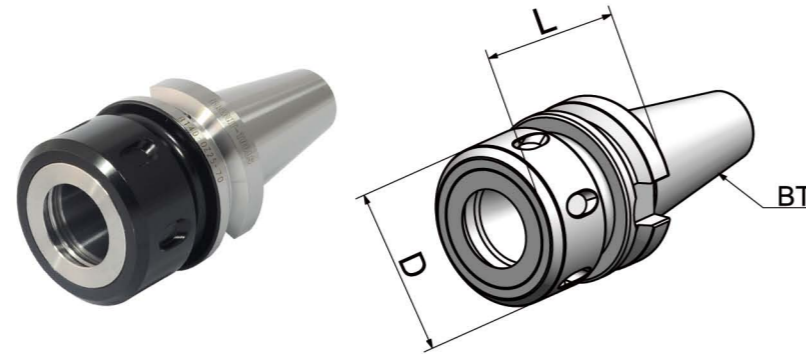

JIS B 6339

Size	d	D	L	Capacity
BT30-HC20-80	25	59	80	3-16; 20
BT30-HC25-90	25	59	90	3-20; 25
BT30-HC32-110	32	70	110	3-25; 32
BT40-HC20-90	20	50	90	3-16; 20
BT40-HC25-100	25	59	100	3-20; 25
BT40-HC32-90	32	70	90	3-25; 32
BT40-HC32-105	32	70	105	3-25; 32
BT40-HC42-130	42	99	130	3-32; 42
BT50-HC20-105	20	50	105	3-16; 20
BT50-HC25-105	25	59	105	3-20; 25
BT50-HC32-110	32	70	110	3-25; 32
BT50-HC32-165	32	70	165	3-25; 32
BT50-HC42-110	42	99	110	3-32; 42
BT50-HC42-165	42	99	165	3-32; 42

OZ Collet Chuck DIN6391

OZ 夹头刀柄

Runout: 0.005 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM.
Usage: for clamping tools with straight shank in collets DIN 6388.



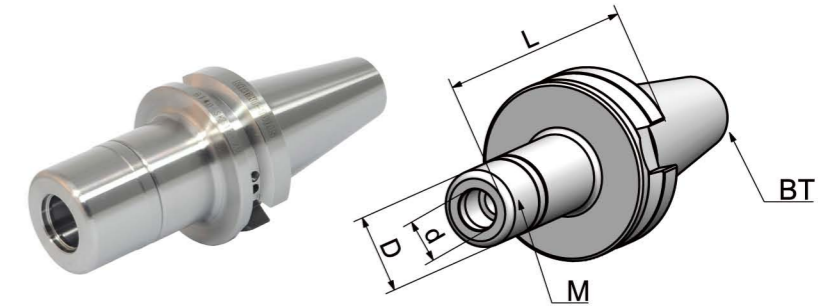
JIS B 6339

Size	D	L	Capacity
BT30-OZ16-70	43	70	3-16
BT30-OZ25-80	60	80	3-25
BT40-OZ16-70	43	70	3-16
BT40-OZ25-70	60	70	3-25
BT40-OZ32-90	72	90	6-32
BT50-OZ25-85	60	85	3-25
BT50-OZ32-90	72	90	6-32

High Speed SKS Collet Chuck

SKS 高速筒夹刀柄

Runout: 0.003 mm
Cooling: AD
Balancing: G2.5/25000 RPM
 Balancing G6.3 can be made by request.
Usage: for clamping tools with SKS slim collets.



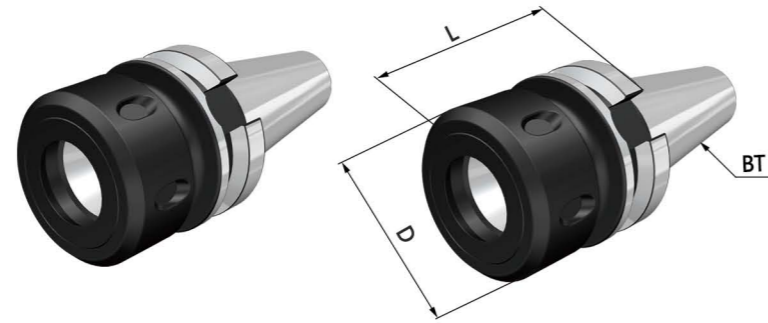
JIS B 6339

Size	d	D	L	Capacity	M
BT30-SKS10-60	14.981	27	60	2-10	M21.5*1
BT30-SKS16-60	23.939	40	60	3-16	M32*1.5
BT30-SKS10-90	14.981	27	90	2-10	M21.5*1
BT30-SKS16-90	23.939	40	90	3-16	M32*1.5
BT40-SKS06-60	9.964	19.5	60	2-6	M15*1.5
BT40-SKS10-60	14.981	27	60	2-10	M21.5*1
BT40-SKS16-70	23.939	40	70	3-16	M32*1.5
BT40-SKS06-90	9.964	19.5	90	2-6	M15*1.5
BT40-SKS10-90	14.981	27	90	2-10	M21.5*1
BT40-SKS16-90	23.939	40	90	3-16	M32*1.5
BT40-SKS25-90	35.029	55	90	6-25	M45*1.5
BT40-SKS10-120	14.981	27	120	2-10	M21.5*1
BT40-SKS16-120	23.939	40	120	3-16	M32*1.5
BT40-SKS25-120	35.029	55	120	6-25	M45*1.5
BT50-SK10-105	14.981	27	105	2-10	M21.5*1
BT50-SK16-105	23.939	40	105	3-16	M32*1.5
BT50-SK25-105	35.029	55	105	6-25	M45*1.5
BT50-SKS10-120	14.981	27	120	2-10	M21.5*1
BT50-SKS16-120	23.939	40	120	3-16	M32*1.5
BT50-SKS10-165	14.981	27	165	2-10	M21.5*1
BT50-SKS16-165	23.939	40	165	3-16	M32*1.5

TG Collet Chuck TG 超強力刀柄

JIS B 6339

Runout: 0.005 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM.
Usage: for clamping tools with straight shank in TG collets.

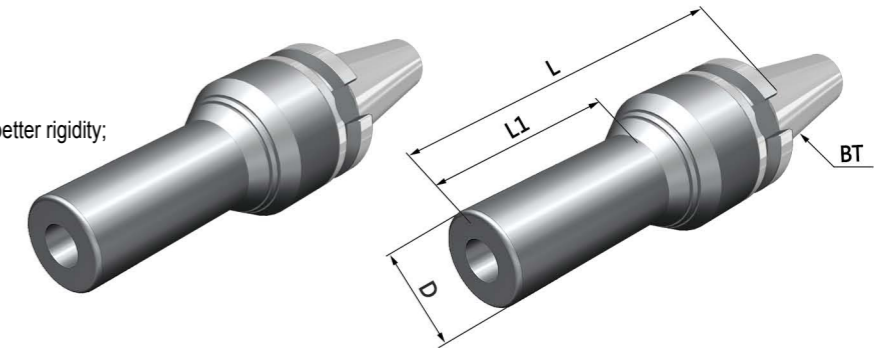


Size	D	L	Capacity
BT30-TG75-70	50	70	2-20
BT30-TG75-100	50	100	2-20
BT30-TG100-100	60	100	3-25
BT40-TG75-70	50	70	2-20
BT40-TG100-80	60	80	3-25
BT40-TG100-100	60	100	3-25
BT40-TG100-150	60	150	3-25
BT50-TG100-90	60	90	3-25
BT50-TG100-150	60	150	3-25

Precision Screw Collet Chuck PSC 后拉刀柄

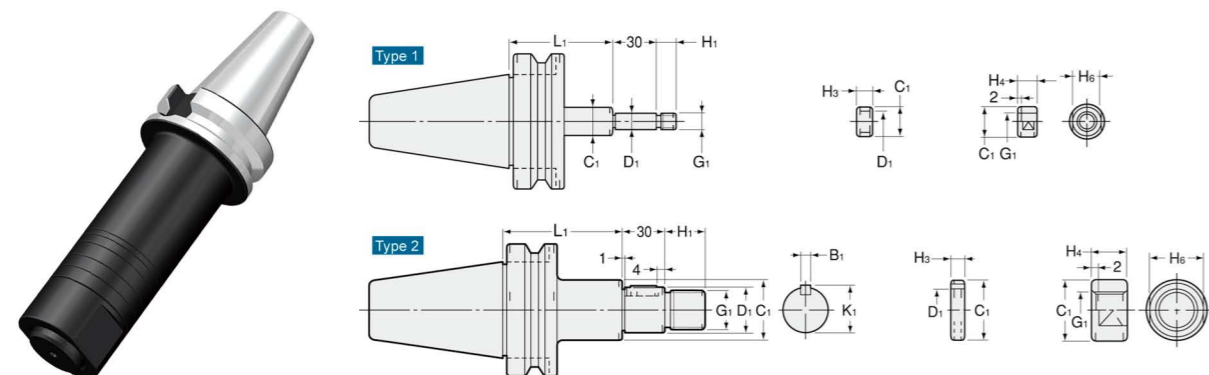
JIS B 6339

Runout: 0.003 mm
Cooling: AD
Balancing: G6.3/15000 RPM
Advantage: worm and gear design for better rigidity;
 Use a hex key to lock easily.



Size	D	L	L1	Capacity
BT30-PSC14-82	30	82	11	2-14
BT30-PSC20-82	40	82	20	2-20
BT40-PSC14-70	30	70	11	2-14
BT40-PSC14-120 D=24	24	120	38	2-14
BT40-PSC14-120	30	120	61	2-14
BT40-PSC14-156	30	156	85	2-14
BT40-PSC20-70	40	70	18	2-20
BT40-PSC20-120	40	120	48	2-20
BT40-PSC20-156	40	156	84	2-20
BT40-PSC32-110	63	110	-	16-32
BT50-PSC20-81	40	81	18	2-20
BT50-PSC20-131	40	131	48	2-20
BT50-PSC20-167	40	167	84	2-20
BT50-PSC32-121	70	121	-	16-32

Side Cutter Arbor 侧铣刀柄

JIS B 6339

Metric

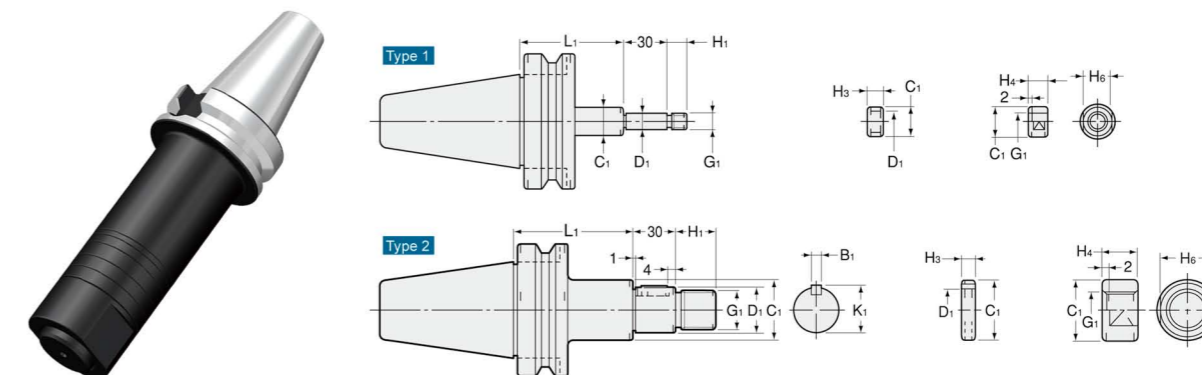
Size	Type	D1	L1	C1	G1	H1	B1	K1	H4	H6	Cutter Dia.
BT30-SCA13-75	1	13	75	20	M12 X 1.25	15	-	-	12	17	50
BT30-SCA16-75	2	16	75	26	M14 X 1.5	16	4	17.2	13	22	50 - 63
BT30-SCA22-75	2	22	75	34	M20 X 1.5	21	6	23.6	18	30	60 - 125
BT40-SCA13-60	1	13	60	20	M12 X 1.25	15	-	-	12	17	50
BT40-SCA13-90	1	13	90	20	M12 X 1.25	15	-	-	12	17	50
BT40-SCA16-75	2	16	75	26	M14 X 1.5	16	4	17.2	13	22	50 - 63
BT40-SCA16-105	2	16	105	26	M14 X 1.5	16	4	17.2	13	22	50 - 63
BT40-SCA22-75	2	22	75	34	M20 X 1.5	21	6	23.6	18	30	60 - 125
BT40-SCA22-120	2	22	120	34	M20 X 1.5	21	6	23.6	18	30	60 - 125
BT40-SCA27-75	2	27	75	40	M24 X 2	25	7	29	21	32	75 - 100
BT40-SCA27-120	2	27	120	40	M24 X 2	25	7	29	21	32	75 - 100
BT40-SCA32-90	2	32	90	46	M30 X 2	30	8	34	26	41	100 - 250
BT50-SCA13-75	1	13	75	20	M12 X 1.25	15	-	-	12	17	50
BT50-SCA13-105	1	13	105	20	M12 X 1.25	15	-	-	12	17	50
BT50-SCA16-90	2	16	90	26	M14 X 1.5	16	4	17.2	13	22	50 - 63
BT50-SCA16-120	2	16	120	26	M14 X 1.5	16	4	17.2	13	22	50 - 63
BT50-SCA22-90	2	22	90	34	M20 X 1.5	21	6	23.6	18	30	60 - 125
BT50-SCA22-135	2	22	135	34	M20 X 1.5	21	6	23.6	18	30	60 - 125
BT50-SCA27-90	2	27	90	40	M24 X 2	25	7	29	21	32	75 - 100
BT50-SCA27-135	2	27	135	40	M24 X 2	25	7	29	21	32	75 - 100
BT50-SCA32-90	2	32	90	46	M30 X 2	30	8	34	26	41	100 - 250
BT50-SCA32-135	2	32	135	46	M30 X 2	30	8	34	26	41	100 - 250
BT50-SCA40-90	2	40	90	55	M36 X 3	36	10	42.5	31	46	150 - 315
BT50-SCA40-135	2	40	135	55	M36 X 3	36	10	42.5	31	46	150 - 315

Runout: 0.005 mm

Usage: for holding side cutter and metal saw.

Accessory: 3/5/7/8/10/12mm spacers one piece each.

Side Cutter Arbor 侧铣刀柄

JIS B 6339

Inch

Size	Type	D1	L1	C1	G1	H1	B1	K1	H4	H6	Cutter Dia.
BT30-SCA12.7-75	1	12.7	75	20	M12 X 1.25	15	-	-	12	17	50
BT30-SCA15.875-75	2	15.875	75	26	M14 X 1.5	16	3.18	17.42	13	22	50 - 63
BT30-SCA22.225-75	2	22.225	75	34	M20 X 1.5	21	3.18	23.82	18	30	60 - 63
BT40-SCA12.7-60	1	12.7	60	20	M12 X 1.25	15	-	-	12	17	50
BT40-SCA12.7-90	1	12.7	90	20	M12 X 1.25	15	-	-	12	17	50
BT40-SCA15.875-75	2	15.875	75	26	M14 X 1.5	16	3.18	17.42	13	22	50 - 63
BT40-SCA15.875-105	2	15.875	105	26	M14 X 1.5	16	3.18	17.42	13	22	50 - 63
BT40-SCA22.225-75	2	22.225	75	34	M20 X 1.5	21	3.18	23.82	18	30	60 - 63
BT40-SCA22.225-120	2	22.225	120	34	M20 X 1.5	21	3.18	23.82	18	30	60 - 63
BT40-SCA25.4-75	2	25.4	75	40	M24 X 2	25	6.35	27.78	21	32	75 - 125
BT40-SCA25.4-120	2	25.4	120	40	M24 X 2	25	6.35	27.78	21	32	75 - 125
BT40-SCA31.75-90	2	31.75	90	46	M30 X 2	30	7.92	34.92	26	41	100 - 250
BT50-SCA12.7-75	1	12.7	75	20	M12 X 1.25	15	-	-	12	17	50
BT50-SCA12.7-105	1	12.7	105	20	M12 X 1.25	15	-	-	12	17	50
BT50-SCA15.875-90	2	15.875	90	26	M14 X 1.5	16	3.18	17.42	13	22	50 - 63
BT50-SCA15.875-120	2	15.875	120	26	M14 X 1.5	16	3.18	17.42	13	22	50 - 63
BT50-SCA22.225-90	2	22.225	90	34	M20 X 1.5	21	3.18	23.82	18	30	60 - 63
BT50-SCA22.225-135	2	22.225	135	34	M20 X 1.5	21	3.18	23.82	18	30	60 - 63
BT50-SCA25.4-90	2	25.4	90	40	M24 X 2	25	6.35	27.78	21	32	75 - 125
BT50-SCA25.4-135	2	25.4	135	40	M24 X 2	25	6.35	27.78	21	32	75 - 125
BT50-SCA31.75-90	2	31.75	90	46	M30 X 2	30	7.92	34.92	26	41	100 - 250
BT50-SCA31.75-135	2	31.75	135	46	M30 X 2	30	7.92	34.92	26	41	100 - 250
BT50-SCA38.1-90	2	38.1	90	55	M36 X 3	36	9.52	42.06	31	46	150 - 315
BT50-SCA38.1-135	2	38.1	135	55	M36 X 3	36	9.52	42.06	31	46	150 - 315

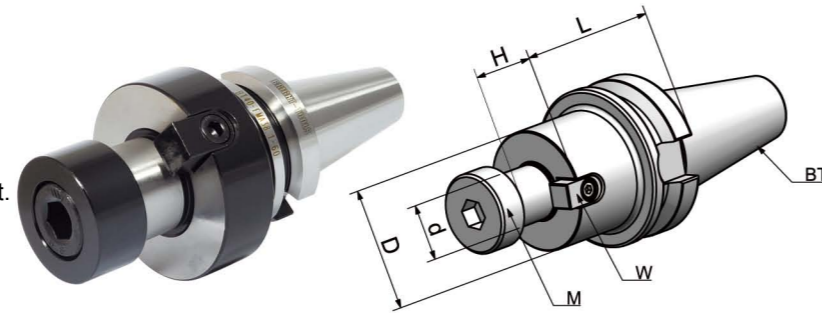
Runout: 0.005 mm

Usage: for holding side cutter and metal saw.

Accessory: 3/5/7/8/10/12mm spacers one piece each.

Face Mill Holder Inch 英制面铣刀柄

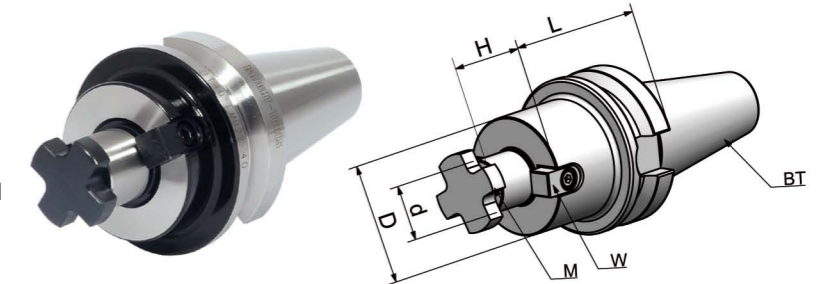
Runout: 0.005 mm
Cooling: Central Coolant;
 AD and AD/B can be made by request.
Balancing: G6.3/15000 RPM
 Balancing G2.5 can be made by request.
Usage: for holding tools like shell mill cutters.


JIS B 6339

Size	d	L	M	D	W	H
BT30-FMA25.4-45	25.4	45	M12	50	9.525	20
BT30-FMA25.4-60	25.4	60	M12	50	9.525	20
BT40-FMA25.4-45	25.4	45	M12	50	9.525	20
BT40-FMA25.4-60	25.4	60	M12	50	9.525	20
BT40-FMA25.4-100	25.4	100	M12	50	9.525	20
BT40-FMA31.75-45	31.75	45	M16	60	12.7	22
BT40-FMA31.75-60	31.75	60	M16	60	12.7	22
BT40-FMA31.75-100	31.75	100	M16	60	12.7	22
BT40-FMA38.1-60	38.1	60	M20	80	15.875	25
BT40-FMA38.1-90	38.1	90	M20	80	15.875	25
BT40-FMA38.1-100	38.1	100	M20	80	15.875	25
BT50-FMA25.4-75	25.4	75	M12	50	9.525	20
BT50-FMA25.4-105	25.4	105	M12	50	9.525	20
BT50-FMA25.4-150	25.4	150	M12	50	9.525	20
BT50-FMA25.4-200	25.4	200	M12	50	9.525	20
BT50-FMA31.75-45	31.75	45	M16	60	12.7	22
BT50-FMA31.75-75	31.75	75	M16	60	12.7	22
BT50-FMA31.75-105	31.75	105	M16	60	12.7	22
BT50-FM131.75-150	31.75	150	M16	60	12.7	22
BT50-FMA31.75-200	31.75	200	M16	60	12.7	22
BT50-FMA38.1-45	38.1	45	M20	80	15.875	25
BT50-FMA38.1-75	38.1	75	M20	80	15.875	25
BT50-FMA50.8-45	50.8	45	M24	98	19.05	36
BT50-FMA50.8-75	50.8	75	M24	98	19.05	36

Face Mill Holder DIN6357 面铣刀柄

Runout: 0.005 mm
Cooling: Central Coolant;
 AD and AD/B can be made by request.
Balancing: G6.3/15000 RPM
 Balancing G2.5 can be made by request.
Usage: for holding tools like shell mill cutters.


JIS B 6339

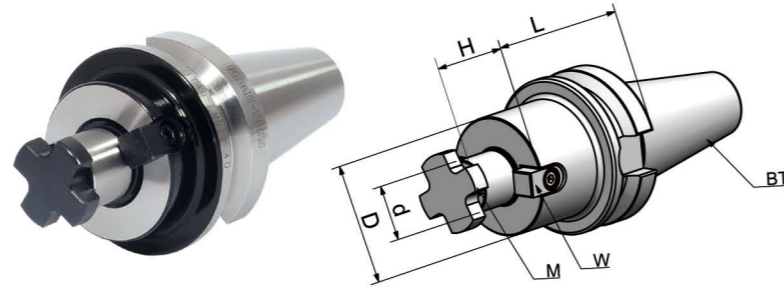
Size	d	L	D	H	M
BT30-FMB16-40	16	40	38	17	M8
BT30-FMB22-40	22	40	48	19	M10
BT30-FMB27-40	27	40	58	21	M12
BT30-FMB32-50	32	50	78	24	M12
BT40-FMB16-40	16	40	38	17	M8
BT40-FMB22-40	22	40	48	19	M10
BT40-FMB27-40	27	40	58	21	M12
BT40-FMB32-50	32	50	78	24	M16
BT40-FMB40-50	40	50	88	27	M20
BT40-FMB16-100	16	100	38	17	M8
BT40-FMB22-100	22	100	48	19	M10
BT40-FMB27-100	27	100	58	21	M12
BT40-FMB32-100	32	100	78	24	M16
BT40-FMB40-100	40	100	88	27	M20
BT40-FMB16-150	16	150	38	17	M8
BT40-FMB22-150	22	150	48	19	M10
BT40-FMB27-150	27	150	58	21	M12
BT40-FMB32-150	32	150	78	24	M16

160 mm can be made by request.

Face Mill Holder DIN6357

面铣刀柄

Runout: 0.005 mm
Cooling: Central Coolant;
 AD and AD/B can be made by request.
Balancing: G6.3/15000 RPM
 Balancing G2.5 can be made by request.
Usage: for holding tools like shell mill cutters.



JIS B 6339

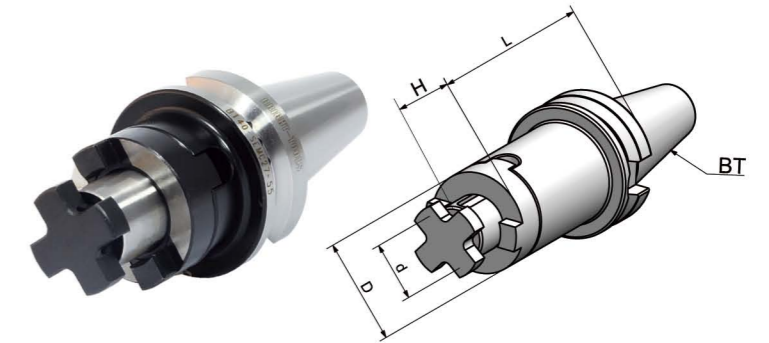
Size	d	L	D	H	M
BT50-FMB16-40	16	40	38	17	M8
BT50-FMB22-40	22	40	48	19	M10
BT50-FMB27-40	27	40	58	21	M12
BT50-FMB32-50	32	50	78	24	M16
BT50-FMB40-50	40	50	88	27	M20
BT50-FMB60-75	60	75	138	25	M30
BT50-FMB16-100	16	100	38	17	M8
BT50-FMB22-100	22	100	48	19	M10
BT50-FMB27-100	27	100	58	21	M12
BT50-FMB32-100	32	100	78	24	M16
BT50-FMB22-150	22	150	48	19	M10
BT50-FMB27-150	27	150	58	21	M12
BT50-FMB32-150	32	150	78	24	M16

160 mm can be made by request.

Combi Shell Mill Holder DIN6358

混合插入式铣刀柄

Runout: 0.005 mm
Cooling: Central Coolant;
 AD and AD/B can be made by request.
Balancing: G6.3/15000 RPM
Usage: for holding tools like shell mill cutters and angular milling cutters.

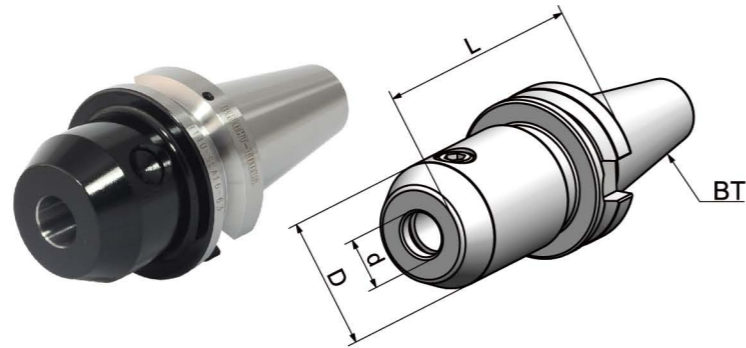


JIS B 6339

Size	d	D	H	L
BT30-SEMC16-45	16	32	17	45
BT30-SEMC22-47	22	40	19	47
BT30-SEMC27-49	27	48	21	49
BT40-SEMC16-55	16	32	17	55
BT40-SEMC22-55	22	40	19	55
BT40-SEMC27-55	27	48	21	55
BT40-SEMC32-60	32	58	24	60
BT40-SEMC40-60	40	70	27	60
BT40-SEMC16-100	16	32	17	100
BT40-SEMC22-100	22	40	19	100
BT40-SEMC27-100	27	48	21	100
BT40-SEMC32-100	32	58	24	100
BT40-SEMC40-100	40	70	27	100
BT40-SEMC16-160	16	32	17	160
BT40-SEMC22-160	22	40	19	160
BT40-SEMC27-160	27	48	21	160
BT40-SEMC32-160	32	58	24	160
BT40-SEMC40-160	40	70	27	160
BT50-SEMC16-70	16	32	17	70
BT50-SEMC22-70	22	40	19	70
BT50-SEMC27-70	27	48	21	70
BT50-SEMC32-70	32	58	24	70
BT50-SEMC40-70	40	70	27	70

End Mill Holder DIN6359/1835B (Weldon)
侧固刀柄

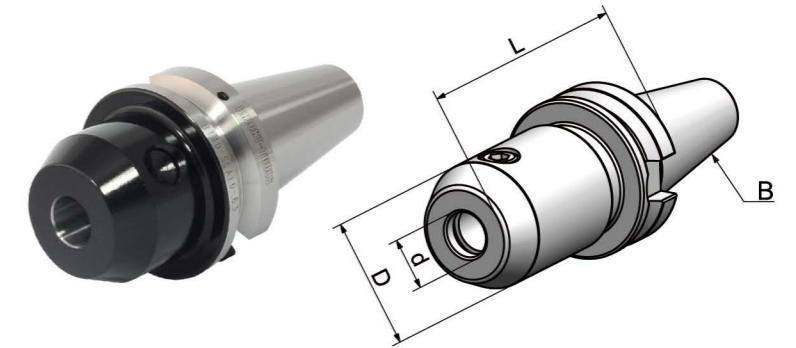
Runout: 0.005 mm
Bore Tolerance: H5
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM
Usage: for clamping tools with straight shank and inclined flat DIN1835-B.


JIS B 6339

Size	d	D	L
BT30-SLA6-50	6	25	50
BT30-SLA8-50	8	28	50
BT30-SLA10-50	10	35	50
BT30-SLA12-50	12	42	50
BT30-SLA14-50	14	44	50
BT30-SLA16-63	16	48	63
BT30-SLA18-63	18	50	63
BT30-SLA20-63	20	52	63
BT40-SLA6-50	6	25	50
BT40-SLA8-50	8	28	50
BT40-SLA10-63	10	35	63
BT40-SLA12-63	12	42	63
BT40-SLA14-63	14	44	63
BT40-SLA16-63	16	48	63
BT40-SLA18-63	18	50	63
BT40-SLA20-63	20	52	63
BT40-SLA25-90	25	65	90
BT40-SLA32-100	32	72	100
BT40-SLA40-120	40	80	120
BT40-SLA6-100	6	25	100
BT40-SLA8-100	8	28	100
BT40-SLA10-100	10	35	100
BT40-SLA12-100	12	42	100
BT40-SLA14-100	14	44	100
BT40-SLA16-100	16	48	100
BT40-SLA18-100	18	50	100
BT40-SLA20-100	20	52	100

End Mill Holder DIN6359/1835B (Weldon)
侧固刀柄

Runout: 0.005 mm
Bore Tolerance: H5
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM
Usage: for clamping tools with straight shank and inclined flat DIN1835-B.


JIS B 6339

Size	d	D	L
BT40-SLA6-160	6	25	160
BT40-SLA8-160	8	28	160
BT40-SLA10-160	10	35	160
BT40-SLA12-160	12	42	160
BT40-SLA14-160	14	44	160
BT40-SLA16-160	16	48	160
BT40-SLA18-160	18	50	160
BT40-SLA20-160	20	52	160
BT40-SLA25-160	25	65	160
BT40-SLA32-160	32	72	160
BT40-SLA40-160	40	80	160
BT50-SLA6-63	6	25	63
BT50-SLA8-63	8	28	63
BT50-SLA10-63	10	35	63
BT50-SLA12-80	12	42	80
BT50-SLA14-80	14	44	80
BT50-SLA16-80	16	48	80
BT50-SLA18-80	18	50	80
BT50-SLA20-80	20	52	80
BT50-SLA25-100	25	65	100
BT50-SLA32-105	32	72	105
BT50-SLA40-110	40	80	110

End Mill Holder with Coolant Channels 中心出水侧固刀柄

JIS B 6339

Runout: 0.005 mm
Bore Tolerance: H5
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM
Usage: for clamping tools with straight shank and inclined flat DIN1835-B.



Size	d	D	L
BT40-SLA06-50K	6	25	50
BT40-SLA08-50K	8	28	50
BT40-SLA10-63K	10	35	63
BT40-SLA12-63K	12	42	63
BT40-SLA14-63K	14	44	63
BT40-SLA16-63K	16	48	63
BT40-SLA18-63K	18	50	63
BT40-SLA20-63K	20	52	63
BT40-SLA25-90K	25	65	90
BT40-SLA32-100K	32	72	100
BT40-SLA40-120K	40	80	120
BT50-SLA6-63K	6	25	63
BT50-SLA8-63K	8	28	63
BT50-SLA10-63K	10	35	63
BT50-SLA12-80K	12	42	80
BT50-SLA14-80K	14	44	80
BT50-SLA16-80K	16	48	80
BT50-SLA18-80K	18	50	80
BT50-SLA20-80K	20	52	80
BT50-SLA25-100K	25	65	100
BT50-SLA32-105K	32	72	105
BT50-SLA40-110K	40	80	110

Morse Taper Adapter with Tang DIN6383 带扁尾莫式刀柄

JIS B 6339

Runout: 0.005 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM
Usage: for holding tools with Morse taper shank and tang according to DIN 228-1 form B.



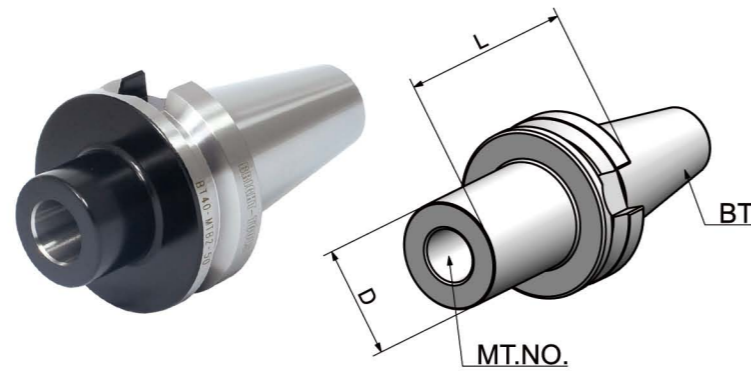
Size	MT.NO.	D	L
BT30-MTA1-45	1	25	45
BT30-MTA2-60	2	32	60
BT30-MTA3-75	3	40	75
BT40-MTA1-50	1	25	50
BT40-MTA2-50	2	32	50
BT40-MTA3-70	3	40	70
BT40-MTA4-95	4	48	95
BT50-MTA1-45	1	25	45
BT50-MTA2-60	2	32	60
BT50-MTA3-65	3	40	65
BT50-MTA4-95	4	48	95
BT50-MTA5-120	5	63	120

Morse Taper Adapter with Drawbar DIN6364

带螺纹孔莫式刀柄

JIS B 6339

Runout: 0.005 mm
Cooling: A
Balancing: G6.3/15000 RPM
Usage: for clamping tools with Morse taper shank and thread according to DIN 228-1 form A.



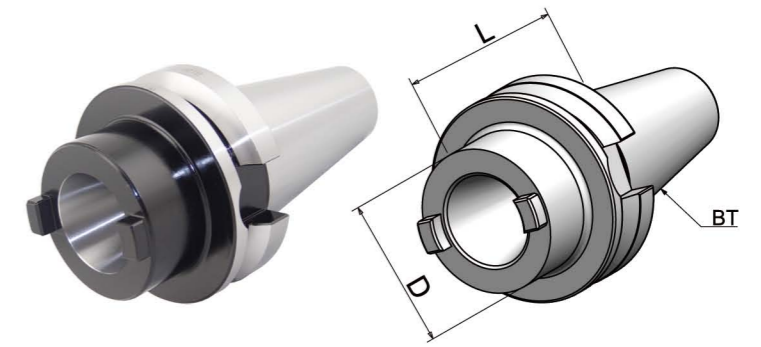
Size	MT.NO.	D	L
BT40-MTB1-50	1	25	50
BT40-MTB2-50	2	32	50
BT40-MTB3-70	3	40	70
BT40-MTB4-95	4	48	95
BT50-MTB1-45	1	25	45
BT50-MTB2-60	2	32	60
BT50-MTB3-65	3	40	65
BT50-MTB4-70	4	48	70
BT50-MTB5-120	5	63	120

Tool Holder Adapter Sleeve

转换刀柄

JIS B 6339

Runout: 0.005 mm
Cooling: A
Balancing: G6.3/15000 RPM
Usage: for mounting tapers DIN 69871, JIS B 6339, and DIN 2080.
Delivery: Additional screw for DIN 2080 tools included.

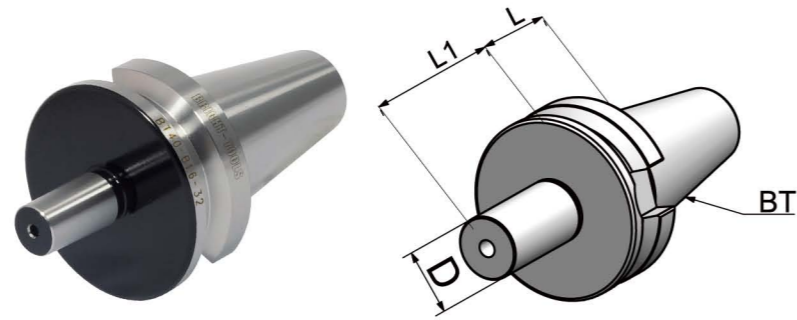


Size	D	L
BT40-BT30-60	63	60
BT40-BT40-100	63	100
BT50-BT40-70	70	70
BT50-BT50-120	97	120

Drill Chuck Adapter DIN238

钻接杆

Runout: 0.005 mm
Cooling: A
Balancing: G6.3/15000 RPM
Usage: for mounting drill chucks.


JIS B 6339

Size	D	L	L1
BT30-B12	B12	25	18.5
BT30-B16	B16	25	24
BT40-B12	B12	32	18.5
BT40-B16	B16	32	24
BT40-B18	B18	32	32
BT40-B22	B22	32	40.5
BT50-B16	B16	45	24
BT50-B18	B18	45	32
BT50-B22	B22	45	40.5

APU Drill Chuck Holder

APU 钻夹头刀柄

Runout: 0.08 mm
Cooling: A; Central cooling is unavailable.
Balancing: Non-Balance
Usage: for clamping tools with straight shank.

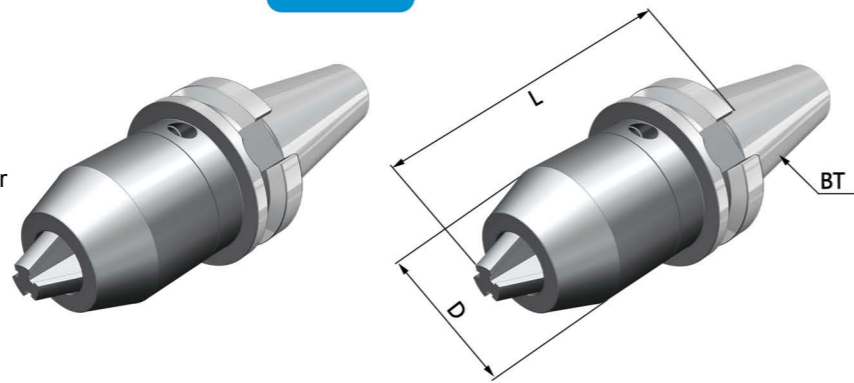

JIS B 6339

Size	D	L	Capacity	
BT30-APU08-80	36	80	85	1-8
BT30-APU13-110	48	110	120	1-13
BT40-APU08-85	36	85	90	1-8
BT40-APU13-105	48	105	115	1-13
BT40-APU16-110	53	110	120.6	3-16
BT50-APU08-90	36	90	100	1-8
BT50-APU13-105	48	105	115	1-13
BT50-APU16-115	53	115	125.6	3-16

Precision Drill Chuck Holder 精密钻夹头刀柄

NEW!
JIS B 6339
Advantages:

- 1) Runout: 0.03 mm;
- 2) Internal cooling;
- 3) Worm and gear design for better clamping force;
- 4) Use a hex key to lock easily.

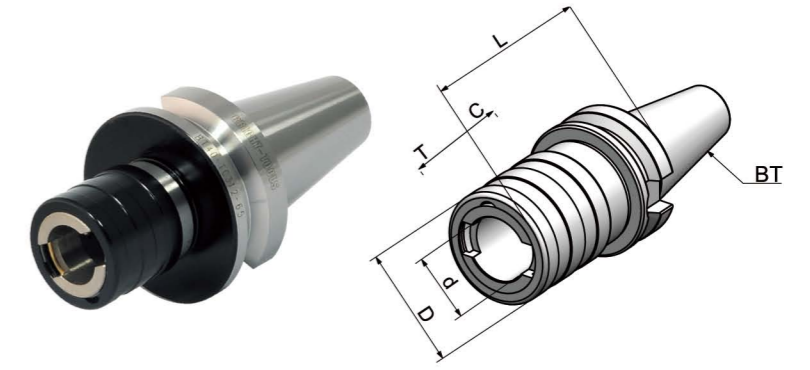


Size	D	L	Capacity
BT30-CPU10-72	38	72	0.5-10
BT40-CPU10-77	38	77	0.5-10
BT40-CPU16-88	50	88	1-16
BT50-CPU16-99	50	99	1-16

Quick Change Tapping Chuck with Length Compensation 弹性快换攻丝刀柄

JIS B 6339

Usage: for tapping preferably.
Axial length compensation on tension and pressure.

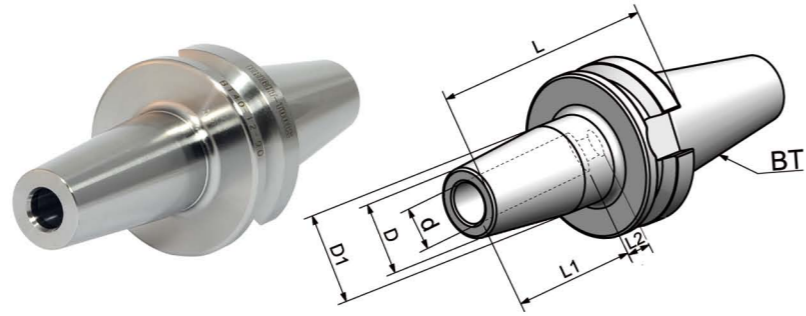


Size	Collet Size	d	D	L	T	C
BT30-TC312-70	1	19	38	70	7.5	7.5
BT30-TC820-95	2	31	54	95	12.5	12.5
BT40-TC312-65	1	19	38	65	7.5	7.5
BT40-TC820-93	2	31	53	93	12.5	12.5
BT40-TC1433-166	3	48	78	166	22	22
BT50-TC312-100	1	19	38	100	7.5	7.5
BT50-TC820-100	2	31	53	100	12.5	12.5
BT50-TC1433-142	3	48	78	142	22	22

Shrink Fit Chuck 热缩刀柄

JIS B 6339

Runout: 0.003 mm
Blancing: G2.5/25000 RPM
Usage: Working with induction shrink machine for mounting straight shank tools.

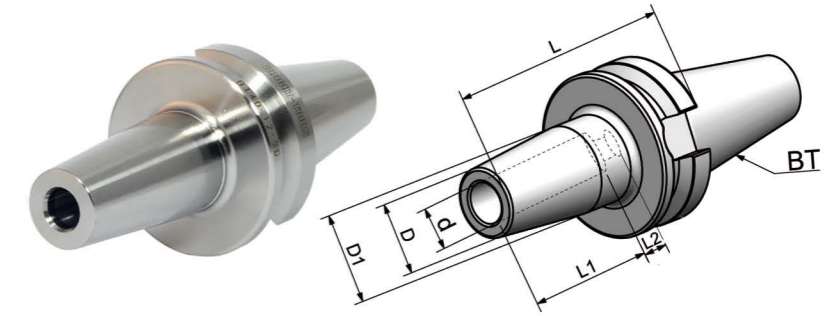


Size	d	D	D1	L	L1	L2
BT30-SF3-80	3	15	20	80	10	-
BT30-SF4-80	4	15	20	80	20	5
BT30-SF5-80	5	15	20	80	20	5
BT30-SF6-80	6	20	27	80	36	10
BT30-SF8-80	8	20	27	80	36	10
BT30-SF10-90	10	24	32	90	41	10
BT30-SF12-90	12	24	32	90	47	10
BT30-SF14-90	14	27	34	90	47	10
BT30-SF16-90	16	27	34	90	50	10
BT30-SF18-90	18	33	42	90	50	10
BT30-SF20-90	20	33	42	90	52	10
BT40-SF3-80	3	15	20	80	10	-
BT40-SF4-80	4	15	20	80	20	5
BT40-SF5-80	5	15	20	80	20	5
BT40-SF6-90	6	20	27	90	36	10
BT40-SF8-90	8	20	27	90	36	10
BT40-SF10-90	10	24	32	90	41	10
BT40-SF12-90	12	24	32	90	47	10
BT40-SF14-90	14	27	34	90	47	10
BT40-SF16-90	16	27	34	90	50	10
BT40-SF18-90	18	33	42	90	50	10
BT40-SF20-90	20	33	42	90	52	10
BT40-SF25-100	25	44	53	100	58	10
BT40-SF32-100	32	44	53	100	62	10

Shrink Fit Chuck 热缩刀柄

JIS B 6339

Runout: 0.003 mm
Blancing: G2.5/25000 RPM
Usage: Working with induction shrink machine for mounting straight shank tools.

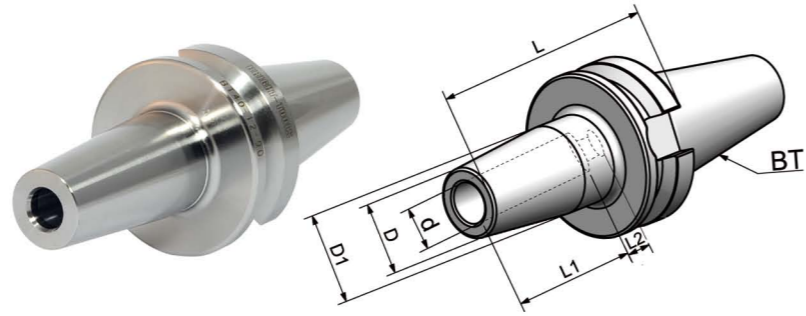


Size	d	D	D1	L	L1	L2
BT40-SF6-120	6	20	27	120	36	10
BT40-SF8-120	8	20	27	120	36	10
BT40-SF10-120	10	24	32	120	41	10
BT40-SF12-120	12	24	32	120	47	10
BT40-SF14-120	14	27	34	120	47	10
BT40-SF16-120	16	27	34	120	50	10
BT40-SF18-120	18	33	42	120	50	10
BT40-SF20-120	20	33	42	120	52	10
BT40-SF25-120	25	44	53	120	58	10
BT40-SF6-160	6	20	27	160	36	10
BT40-SF8-160	8	20	27	160	36	10
BT40-SF10-160	10	24	32	160	41	10
BT40-SF12-160	12	24	32	160	47	10
BT40-SF14-160	14	27	34	160	47	10
BT40-SF16-160	16	27	34	160	50	10
BT40-SF18-160	18	33	42	160	50	10
BT40-SF20-160	20	33	42	160	52	10
BT40-SF25-160	25	44	53	160	58	10
BT40-SF32-160	32	44	53	160	62	10

Shrink Fit Chuck 热缩刀柄

JIS B 6339

Runout: 0.003 mm
Blancing: G2.5/25000 RPM
Usage: Working with induction shrink machine for mounting straight shank tools.

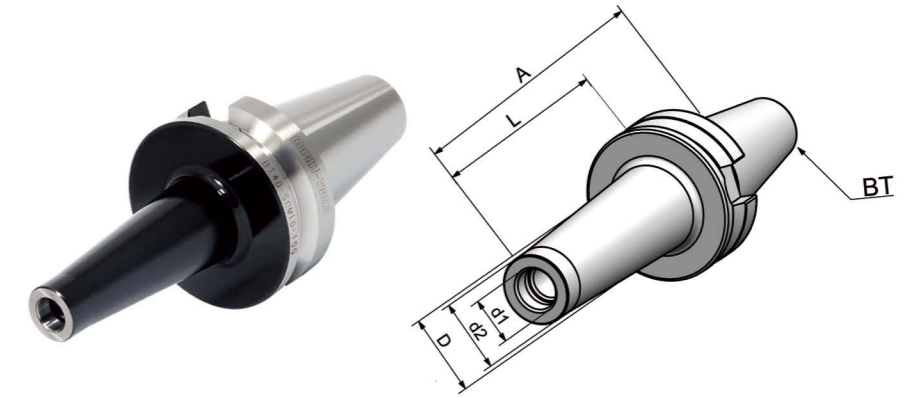


Size	d	D	D1	L	L1	L2
BT50-SF4-100	4	15	20	100	20	5
BT50-SF5-100	5	15	20	100	20	5
BT50-SF6-100	6	20	27	100	36	10
BT50-SF8-100	8	20	27	100	36	10
BT50-SF10-100	10	24	32	100	41	10
BT50-SF12-100	12	24	32	100	47	10
BT50-SF14-100	14	27	34	100	47	10
BT50-SF16-100	16	27	34	100	50	10
BT50-SF18-100	18	33	42	100	50	10
BT50-SF20-100	20	33	42	100	52	10
BT50-SF25-120	25	44	53	120	58	10
BT50-SF32-120	32	44	53	120	62	10
BT50-SF6-160	6	20	27	160	36	10
BT50-SF8-160	8	20	27	160	36	10
BT50-SF10-160	10	24	32	160	41	10
BT50-SF12-160	12	24	32	160	47	10
BT50-SF14-160	14	27	34	160	47	10
BT50-SF16-160	16	27	34	160	50	10
BT50-SF18-160	18	33	42	160	50	10
BT50-SF20-160	20	33	42	160	52	10
BT50-SF25-160	25	44	53	160	58	10
BT50-SF32-160	32	44	53	160	62	10

Screw-in Milling Cutter Holder SOM 锁牙刀柄

JIS B 6339

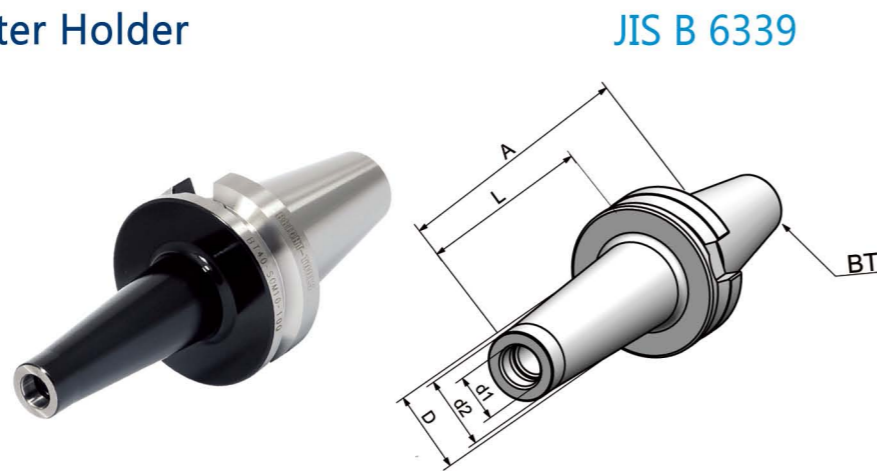
Runout: 0.005 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM;
Usage: for mounting screw-in cutters with thread.



Size	M	d1	d2	A	L	D
BT40-SOM08-52 L=25	8	8.5	14.5	52	25	15
BT40-SOM08-77 L=50	8	8.5	14.5	77	50	23
BT40-SOM08-102 L=75	8	8.5	14.5	102	75	23
BT40-SOM08-127 L=100	8	8.5	14.5	127	100	25
BT40-SOM10-32 L=5	10	10.5	18	32	5	18
BT40-SOM10-52 L=25	10	10.5	18	52	25	20
BT40-SOM10-77 L=50	10	10.5	18	77	50	23
BT40-SOM10-102 L=75	10	10.5	18	102	75	28
BT40-SOM10-127 L=100	10	10.5	18	127	100	32
BT40-SOM10-177 L=150	10	10.5	18	177	150	36.5
BT40-SOM12-32 L=5	12	12.5	21	32	5	21
BT40-SOM12-52 L=25	12	12.5	21	52	25	24
BT40-SOM12-77 L=50	12	12.5	21	77	50	24
BT40-SOM12-102 L=75	12	12.5	21	102	75	31
BT40-SOM12-127 L=100	12	12.5	21	127	100	31
BT40-SOM12-152 L=125	12	12.5	21	152	125	36
BT40-SOM12-177 L=150	12	12.5	21	177	150	38
BT40-SOM16-32 L=5	16	17	29	32	5	29
BT40-SOM16-52 L=25	16	17	29	52	25	29
BT40-SOM16-77 L=50	16	17	29	77	50	34
BT40-SOM16-102 L=75	16	17	29	102	75	34
BT40-SOM16-127 L=100	16	17	29	127	100	36
BT40-SOM16-152 L=125	16	17	29	152	125	40
BT40-SOM16-177 L=150	16	17	29	177	150	42.5

Screw-in Milling Cutter Holder SOM 锁牙刀柄

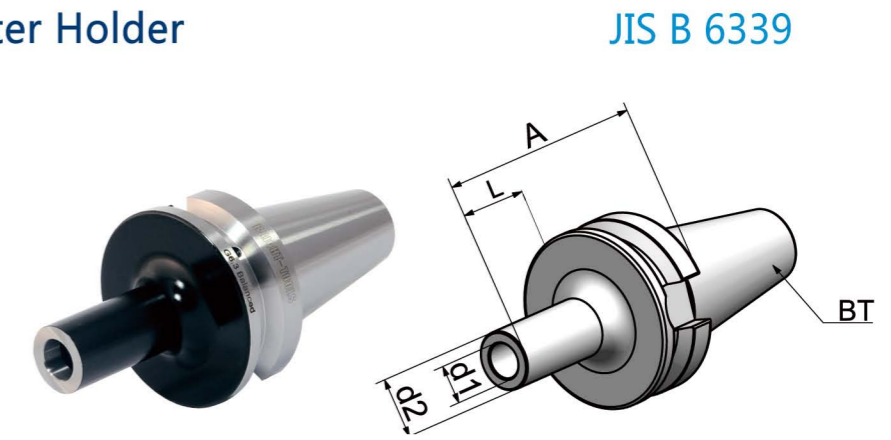
Runout: 0.005 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM;
Usage: for mounting screw-in cutters with thread.



Size	M	d1	d2	A	L	D
BT50-SOM08-88 L=50	8	8.5	14.5	88	50	23
BT50-SOM08-138 L=100	8	8.5	14.5	138	100	25
BT50-SOM08-188 L=150	8	8.5	14.5	188	150	30
BT50-SOM10-88 L=50	10	10.5	18	88	50	23
BT50-SOM10-138 L=100	10	10.5	18	138	100	32
BT50-SOM10-188 L=150	10	10.5	18	188	150	36.5
BT50-SOM12-88 L=50	12	12.5	21	88	50	24
BT50-SOM12-138 L=100	12	12.5	21	138	100	33
BT50-SOM12-188 L=150	12	12.5	21	188	150	40
BT50-SOM16-88 L=50	16	17	29	88	50	34
BT50-SOM16-138 L=100	16	17	29	138	100	36
BT50-SOM16-188 L=150	16	17	29	188	150	42.5

Screw-in Milling Cutter Holder SOM 锁牙刀柄

Runout: 0.005 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM;
Usage: for mounting screw-in cutters with thread.

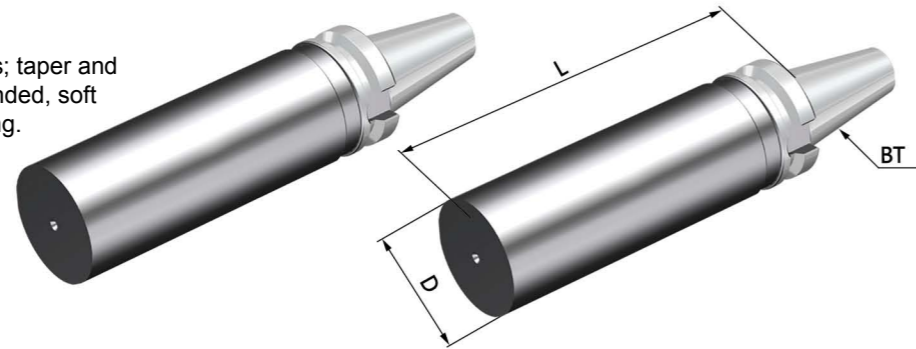


Size	M	d1	d2	A	L
BT40-M10-102 L=75	10	10.5	18	102	75
BT40-M10-127 L=100	10	10.5	18	127	100
BT40-M10-177 L=150	10	10.5	18	177	150
BT40-M12-108 L=75	12	12.5	21	108	75
BT40-M12-127 L=100	12	12.5	21	127	100
BT40-M12-152 L=125	12	12.5	21	152	125
BT40-M12-177 L=150	12	12.5	21	177	150
BT40-M16-102 L=75	16	17	29	102	75
BT40-M16-127 L=100	16	17	29	127	100
BT40-M16-152 L=125	16	17	29	152	125
BT40-M16-177 L=150	16	17	29	177	150
BT50-M10-138 L=100	10	10.5	18	138	100
BT50-M10-188 L=150	10	10.5	18	188	150
BT50-M21-138 L=100	12	12.5	21	138	100
BT50-M21-188 L=150	12	12.5	21	188	150
BT50-M17-138 L=100	16	17	29	138	100
BT50-M17-188 L=150	16	17	29	188	150

Boring Bar Blank 基础柄

JIS B 6339

Usage: used for special tools; taper and flange are hardened and grinded, soft blank side for later processing.



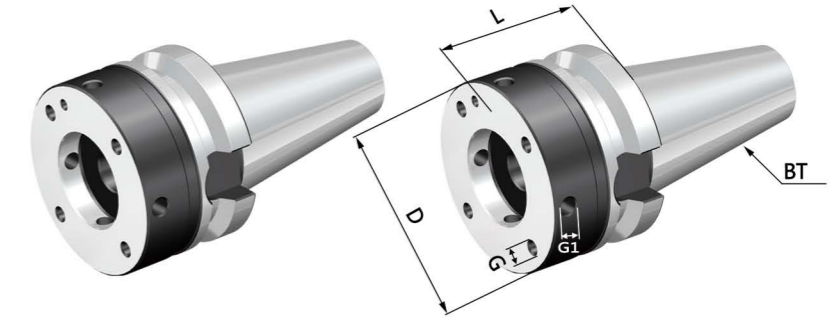
Size	D	L
BT30-45-160	45	160
BT40-63-160	63	160
BT40-63-250	63	250
BT50-97-160	97	160
BT50-97-250	97	250

Other sizes can be made by request.

Runout Adjustable Flange Adapter 可调节精度法兰刀柄

JIS B 6339

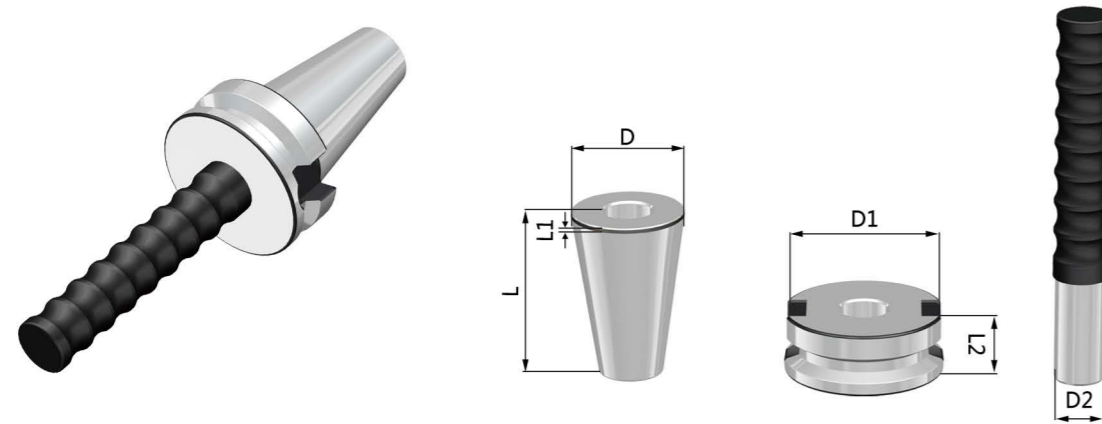
Runout: can be adjusted to 0.002mm
Surface Flatness: 0.002 mm
Surface Runout: 0.002 mm
Balancing: G6.3/15000 RPM
Usage: flange connection, use screws to adjust tool holder runout.



Size	BT	D	L	G	G1
BT30-MOD060-040	30	60	40	M5	M8x1
BT30-MOD070-040	30	70	40	M6	M8x1
BT40-MOD060-055	40	60	55	M5	M8x1
BT40-MOD070-055	40	70	55	M6	M8x1
BT40-MOD080-065	40	80	65	M6	M8x1
BT40-MOD100-070	40	100	70	M5	M8x1
BT45-MOD060-065	45	60	65	M5	M8x1
BT45-MOD070-065	45	70	65	M6	M8x1
BT45-MOD080-065	45	80	65	M6	M8x1
BT45-MOD100-075	45	100	75	M8	M10x1
BT45-MOD117-075	45	117	75	M8	M10x1
BT50-MOD060-070	50	60	70	M5	M8x1
BT50-MOD070-070	50	70	70	M6	M8x1
BT50-MOD080-070	50	80	70	M6	M8x1
BT50-MOD100-070	50	100	70	M8	M10x1
BT50-MOD117-080	50	117	80	M8	M10x1
BT50-MOD140-080	50	140	80	M10	M10x1

Alignment Tool for ATC Arm 调整机械手用组合模具

JIS B 6339

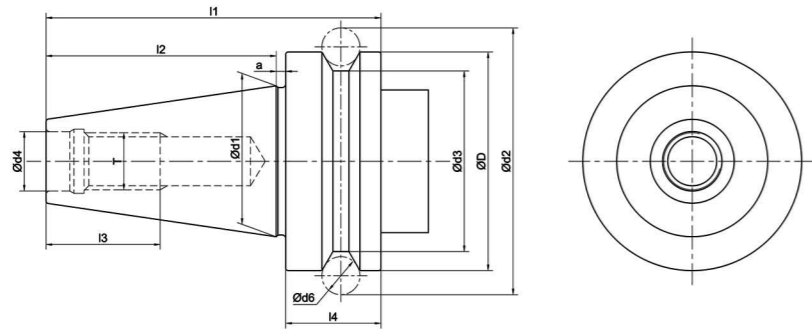


Size	D	D1	D2	L	L1	L2	M
BT30-ATC-18D	31.75	46	18	50.4	2	20	M12
BT40-ATC-20D	44.45	63	20	67.4	2	25	M12
BT50-ATC-28D	69.85	100	28	104.8	3	35	M16

Usage:

- 1) Put the Taper to the machine Spindle
- 2) Install flange to the ATC arm
- 3) Insert Pin into the flange
- 4) Adjust ATC arm and make sure the pin front part into the flange completely.

NBT Taper Standard NBT 锥柄标准



Size	D	d1	d2	d3	d4	d5	d6	l1	l2	l3	l4	a	T
NBT30	46	31.75	56.144	38	12.5	16.1	8	70.4	48.4	24	20	2	M12×1.75
NBT40	63	44.45	75.679	53	17	16.1	10	92.4	65.4	30	25	2	M16×2.0
NBT50	100	69.85	119.019	85	25	25.7	15	139.8	101.8	45	35	3	M24×3.0

Material: Alloyed case hardened steel
Surface Treatment: Blackening and Bright
Taper tolerance: <AT3
Hardness: HRC 58-62
Carbon depth: 0.8±0.2mm
Surface Roughness: Ra<0.005mm
Balancing: G2.5/25000
Cooling: AD



NBT



ER Collet Chuck ----- 43
ER 弹簧夹头刀柄 ----- 43



GER Collet Chuck ----- 44
GER 弹簧夹头刀柄 ----- 44

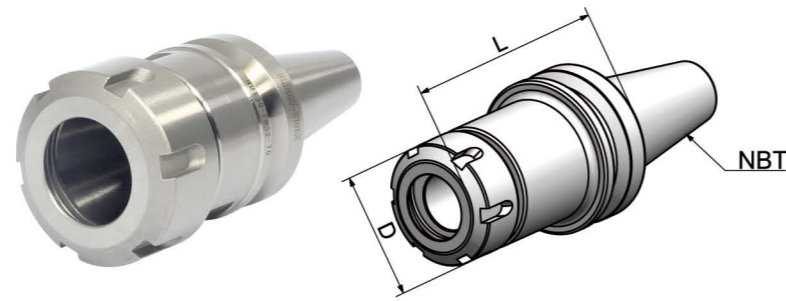


SKS Collet Chuck ----- 45
SKS 高速筒夹刀柄 ----- 45

ER Collet Chuck DIN6499

ER 弹簧夹头刀柄

Runout: 0.003 mm
Cooling: AD
Balancing: G6.3/15000 RPM;
 Balancing G2.5 can be made by request.
Usage: for clamping tools with straight shank in collets DIN 6499.

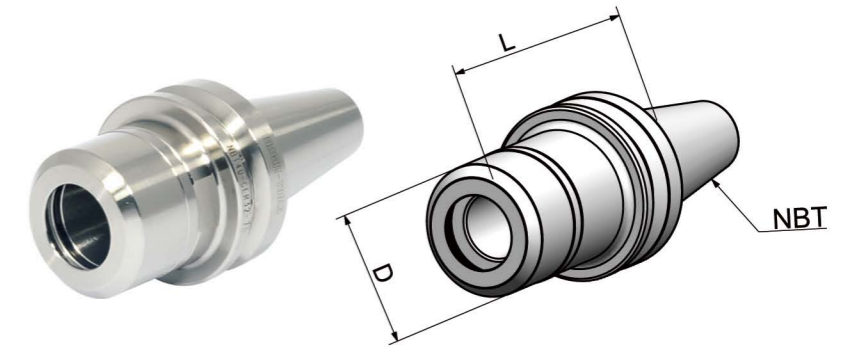


Size	D	L	Capacity
NBT30-ER11A-60	19	60	1-7
NBT30-ER16A-60	28	60	1-10
NBT30-ER20A-60	34	60	1-13
NBT30-ER25-60	42	60	2-16
NBT30-ER32-60	50	60	2-20
NBT30-ER16A-100	28	100	1-10
NBT30-ER20A-100	34	100	1-13
NBT30-ER25-100	42	100	2-16
NBT30-ER32-100	50	100	2-20
NBT40-ER16A-70	28	70	1-10
NBT40-ER20A-70	34	70	1-13
NBT40-ER25-70	42	70	2-16
NBT40-ER32-70	50	70	2-20

ER Collet Chuck with GER Nut DIN6499

ER 弹簧夹头刀柄

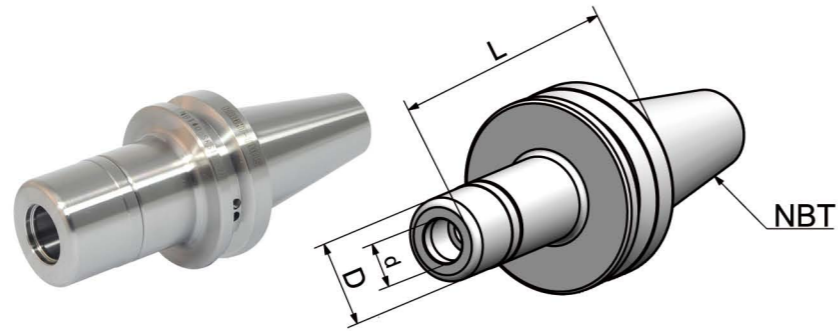
Runout: 0.003 mm
Cooling: AD
Balancing: G2.5/25000 RPM;
Usage: for clamping tools with straight shank in collets DIN 6499.



Size	D	L	Capacity	M
NBT30-GER16-60	30	60	1-10	M22*1.5
NBT30-GER20-60	35	60	1-13	M26*1.5
NBT30-GER25-60	40	60	2-16	M32*1.5
NBT30-GER32-70	48	70	2-20	M40*1.5
NBT40-GER32-70	48	70	2-20	M40*1.5

High Speed SKS Collet Chuck SKS 高速筒夹刀柄

Runout: 0.003 mm
Cooling: AD
Balancing: G2.5/25000 RPM;
 Balancing G6.3 can be made by request.
Usage: for clamping tools with SKS slim collets.



Size	d	D	L	Capacity	M
NBT30-SKS10-60	14.981	27	60	3-10	M21.5*1.0
NBT30-SKS16-60	23.939	40	60	4-16	M32*1.5
NBT30-SKS10-90	14.981	27	90	3-10	M21.5*1.0
NBT30-SKS16-90	23.939	40	90	4-16	M32*1.5

SIK



Bright-tools

SIK

DIN 69871
SK Tool Holders

BRIGHT-TOOLS

Add: Chongde 5th Avenue, Dezhou, Shandong, China

Tel: +86-534-8127522/33/88; +86-534-2356966

Web: <http://www.bright-tools.com>

Email: sales@bright-tools.com

山东金杰机械有限公司
SHANDONG JINJIE MACHINERY CO., LTD

SK

BRIGHT-TOOLS

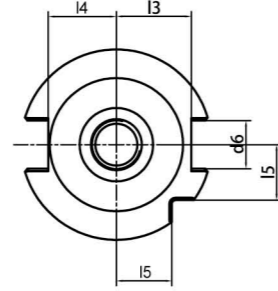
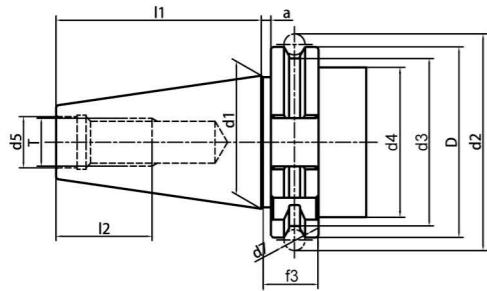


Bright-Tools

SK Taper Standard

SK 锥柄标准

DIN 69871























Size	D	d1	d2	d3	d4	d5	d6	d7	l1	l2	l3	l4	l5	e1	e2
SK30	50	31.75	59.3	44.3	45	13	16.1	7	47.8	24	18.8	16.3	15	21	5
SK40	63.55	44.45	72.3	56.25	50	17	16.1	7	58.4	32	25	22.7	18.5	27	5
SK50	97.5	69.85	107.36	91.25	80	25	25.7	7	101.8	47	37.7	35.5	30	42	7

Taper standard: DIN 69871
Material: Alloyed case hardened steel
Surface Treatment: Blackening and Bright
Taper tolerance: <AT3
Hardness: HRC 58-62
Carbon depth: 0.8±0.2mm
Surface Roughness: Ra<0.005mm
Balancing: G6.3/15000; G2.5/25000
Cooling: AD; AD/B can be made by request.



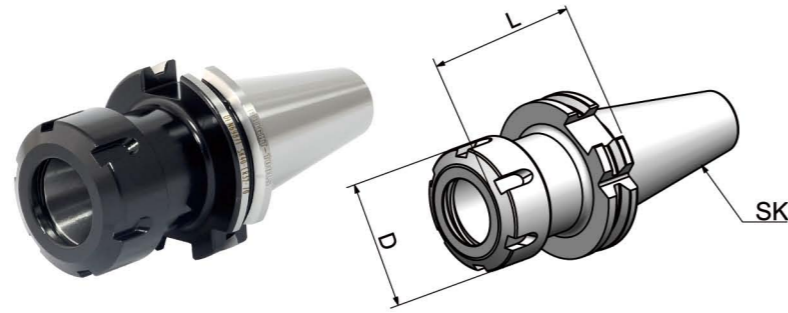
SK

 ER Collet Chuck ----- 03 ER弹簧夹头刀柄 ----- 03	 Power Milling Chuck----- 07 强力铣刀柄 ----- 07	 OZ Collet Chuck ----- 08 OZ夹头刀柄 ----- 08
 SKS Collet Chuck ---- 09 SKS高速筒夹刀柄 ---- 09	 Precision Screw Collet Chuck ----10 PSC 后拉刀柄 ----- 10	 Face Mill Holder ----- 11 面铣刀柄 ----- 11
 Combi Shell Mill Holder --- 13 混合插入式铣刀柄 --- 13	 End Mill Holder ----- 14 侧固刀柄 -----14	 Morse Taper Adapter ----- 18 带扁尾莫式刀柄 ----- 18
 Morse Taper Adapter ---- 19 带螺孔莫式刀柄 ---- 19	 APU Drill Chuck Holder --- 20 APU 钻夹头刀柄 ----- 20	 Precision Drill Chuck Holder - 21 精密钻夹头刀柄 ----- 21
 Tool Holder Adatper Sleeve - 22 转换刀柄 ----- 22	 Drill Chuck Adapter ----- 23 钻接杆 ----- 23	 Quick Change Tapping Chuck -- 24 弹性快换攻丝刀柄 ----- 24
 Shrink Fit Chuck ----- 25 热缩刀柄 ----- 25	 Screw-in Milling Cutter Holder - 27 SOM锁牙刀柄 ----- 27	 Boring Bar Blank ----- 30 基础柄 ----- 30
 Runout Adjustable Flange Adapter - 31 可调节精度法兰刀柄 ---- 31	 Alignment Tool for ATC Arm -- 32 调整机械手用组合模具 --- 32	

ER Collet Chuck with UM Nut DIN6499 ER 弹簧夹头刀柄

DIN 69871

Runout: 0.003 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM;
 Balancing G2.5 can be made by request.
Usage: for clamping tools with straight shank in collets DIN 6499.

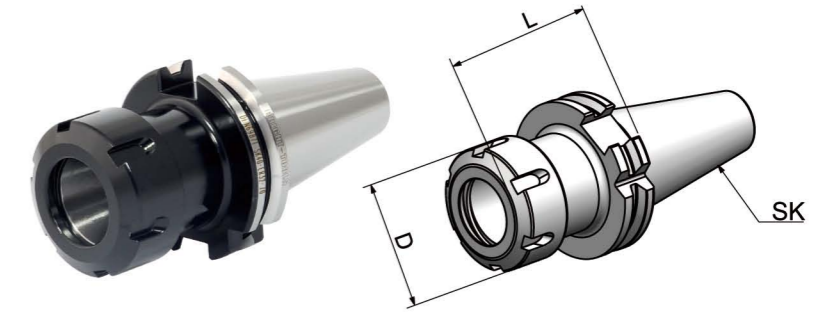


Size	D	L	Capacity
SK30-ER16UM-70	32	70	1-10
SK30-ER20UM-70	35	70	1-13
SK30-ER25-70	42	70	2-16
SK30-ER32-70	50	70	2-20
SK30-ER40-70	63	70	3-26
SK30-ER16UM-100	32	100	1-10
SK30-ER20UM-100	35	100	1-13
SK30-ER25-100	42	100	2-16
SK30-ER32-100	50	100	2-20
SK40-ER16UM-63	32	63	1-10
SK40-ER20UM-70	35	70	1-13
SK40-ER25-60	42	60	2-16
SK40-ER32-70	50	70	2-20
SK40-ER40-80	63	80	3-26
SK40-ER16UM-100	32	100	1-10
SK40-ER20UM-100	35	100	1-13
SK40-ER25-100	42	100	2-16
SK40-ER32-100	50	100	2-20
SK40-ER40-100	63	100	3-26
SK40-ER16UM-160	32	160	1-10
SK40-ER20UM-160	32	160	1-13
SK40-ER25-160	42	160	2-16
SK40-ER32-160	50	160	2-20
SK40-ER40-160	63	160	3-26

ER Collet Chuck with UM Nut DIN6499 ER 弹簧夹头刀柄

DIN 69871

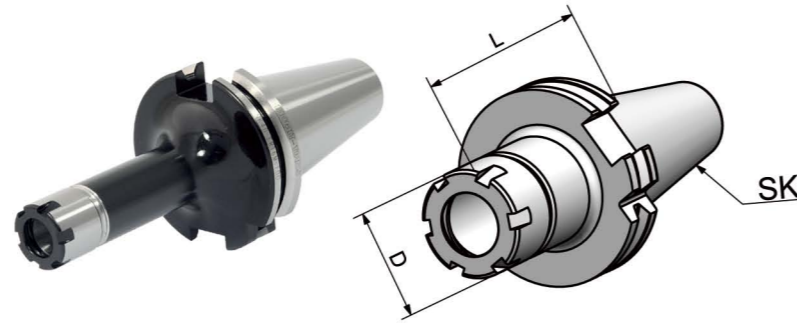
Runout: 0.003 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM;
 Balancing G2.5 can be made by request.
Usage: for clamping tools with straight shank in collets DIN 6499.



Size	D	L	Capacity
SK50-ER16UM-70	32	70	1-10
SK50-ER20UM-70	35	70	1-13
SK50-ER25-60	42	60	2-16
SK50-ER32-70	50	70	2-20
SK50-ER40-70	63	70	3-26
SK50-ER16UM-100	32	100	1-10
SK50-ER20UM-100	35	100	1-13
SK50-ER25-100	42	100	2-16
SK50-ER32-100	50	100	2-20
SK50-ER40-100	63	100	3-26
SK50-ER16UM-160	32	160	1-10
SK50-ER20UM-160	35	160	1-13
SK50-ER25-160	42	100	2-16
SK50-ER32-160	50	160	2-20
SK50-ER40-160	63	160	3-26

ER Collet Chuck with Mini Nut DIN6499
DIN 69871
ER 弹簧夹头刀柄

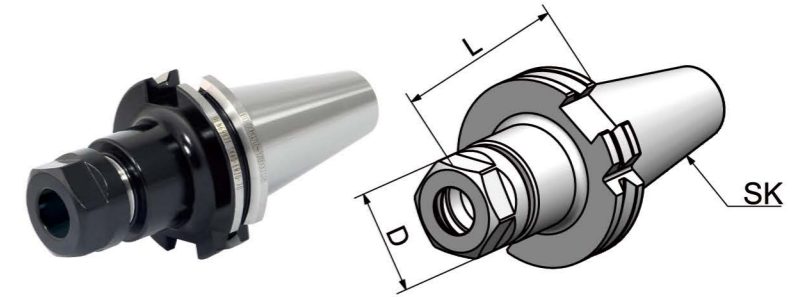
Runout: 0.003 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM;
 Balancing G2.5 can be made by request.
Usage: for clamping tools with straight shank in collets DIN 6499.



Size	D	L	Capacity
SK40-ER11M-70	16	70	1-7
SK40-ER11M-100	16	100	1-7
SK40-ER11M-160	16	160	1-7
SK40-ER16M-70	22	70	1-10
SK40-ER16M-100	22	100	1-10
SK40-ER16M-130	22	130	1-10
SK40-ER16M-160	22	160	1-10
SK40-ER25M-70	35	70	2-16
SK40-ER25M-100	35	100	2-16
SK40-ER25M-160	35	160	2-16
SK50-ER16M-70	22	70	1-10
SK50-ER16M-100	22	100	1-10
SK50-ER16M-160	22	160	1-10
SK50-ER25M-70	35	70	2-16
SK50-ER25M-100	35	100	2-16
SK50-ER25M-160	35	160	2-16

ER Collet Chuck with Hex Nut DIN6499
DIN 69871
ER 弹簧夹头刀柄

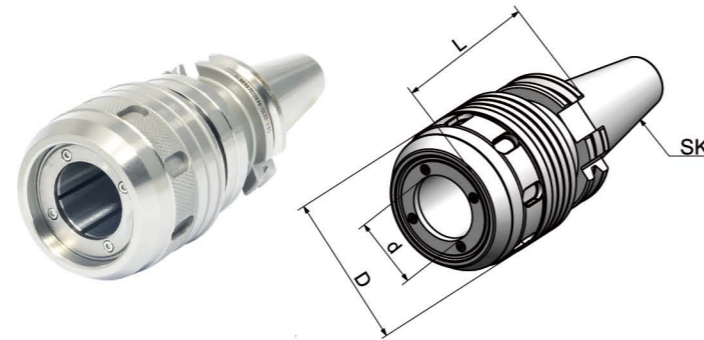
Runout: 0.003 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM;
 Balancing G2.5 can be made by request.
Usage: for clamping tools with straight shank in collets DIN 6499.



Size	D	L	Capacity
SK30-ER16A-60	28	60	1-10
SK30-ER20A-60	34	60	1-13
SK40-ER16A-60	28	60	1-10
SK40-ER20A-70	34	70	1-13
SK40-ER16A-100	28	100	1-10
SK40-ER20A-100	34	100	1-13
SK50-ER16A-70	28	70	1-10
SK50-ER20A-70	34	70	1-13
SK50-ER16A-100	28	100	1-10
SK50-ER20A-100	34	100	1-13
SK50-ER16A-160	28	160	1-10
SK50-ER20A-160	34	160	1-13

Power Milling Chuck 强力铣刀柄

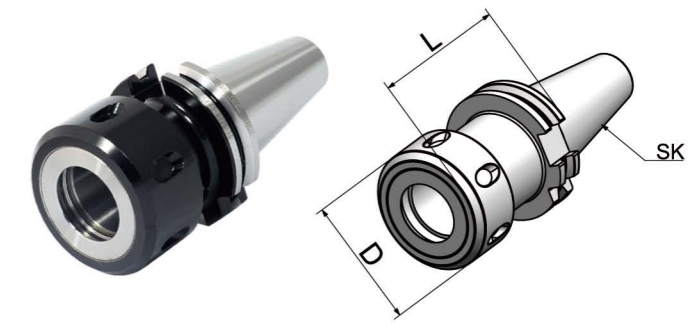
Runout: 0.01 mm
Cooling: AD
Balancing: Non-Balance;
 Balancing G6.3 can be made by request.
Usage: for clamping tools with straight collets or clamping same diameter cutting tools directly.


DIN 69871

Size	d	D	L	Capacity
SK40-HC20-85	20	50	85	3-16; 20
SK40-HC20-135	20	50	135	3-16; 20
SK40-HC32-105	32	70	105	3-25; 32
SK40-HC32-135	32	70	135	3-25; 32
SK50-HC20-105	20	50	105	3-16; 20
SK50-HC20-150	20	50	150	3-16; 20
SK50-HC32-110	32	70	110	3-25; 32
SK50-HC32-135	32	70	135	3-25; 32
SK50-HC42-110	42	99	110	3-32; 42

OZ Collet Chuck DIN6391 OZ 夹头刀柄

Runout: 0.005 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM.
Usage: for clamping tools with straight shank in collets DIN 6388.

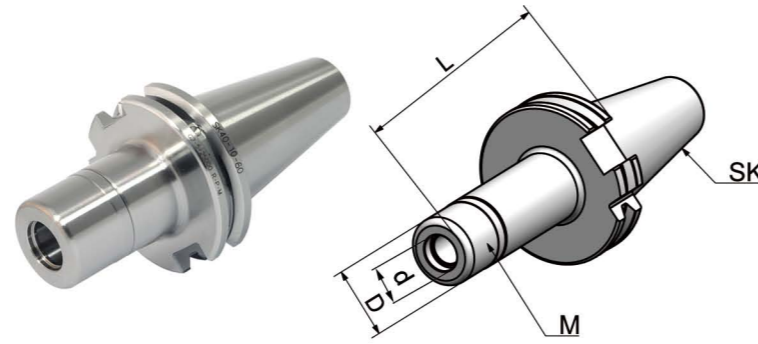

DIN 69871

Size	D	L	Capacity
SK40-OZ16-70	43	70	2-16
SK40-OZ25-70	60	70	2-25
SK40-OZ32-90	72	90	4-32
SK40-OZ16-100	43	100	2-16
SK40-OZ25-100	60	100	2-25
SK50-OZ25-70	60	70	2-25
SK50-OZ32-80	72	80	4-32
SK50-OZ25-100	60	100	2-25

High Speed SKS Collet Chuck SKS 高速筒夹刀柄

DIN 69871

Runout: 0.005 mm
Cooling: AD
Balancing: G2.5/25000 RPM
 Balancing G6.3 can be made by request.
Usage: for clamping tools with SKS slim collets.

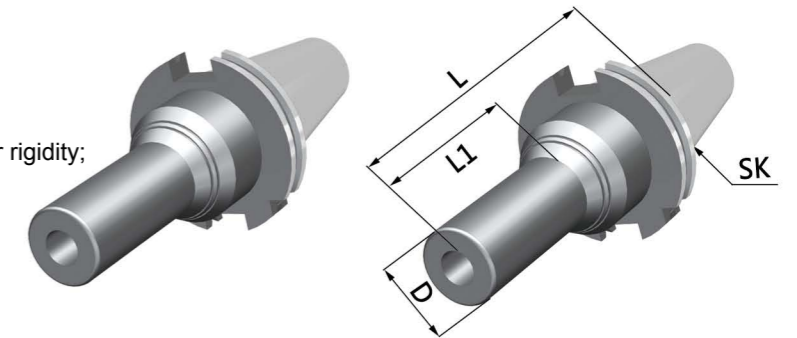


Size	d	D	L	Capacity	M
SK40-SKS10-60	14.981	27	60	2-10	M21.5*1
SK40-SKS10-90	14.981	27	90	2-10	M21.5*1
SK40-SKS10-120	14.981	27	120	2-10	M21.5*1
SK40-SKS16-60	23.939	40	60	3-16	M32*1.5
SK40-SKS16-90	23.939	40	90	3-16	M32*1.5
SK40-SKS16-120	23.939	40	120	3-16	M32*1.5
SK50-SKS10-105	14.981	27	105	2-10	M21.5*1
SK50-SKS10-135	14.981	27	135	2-10	M21.5*1
SK50-SKS10-165	14.981	27	165	2-10	M21.5*1
SK50-SKS16-105	23.939	40	105	3-16	M32*1.5
SK50-SKS16-135	23.939	40	135	3-16	M32*1.5
SK50-SKS16-165	23.939	40	165	3-16	M32*1.5

Precision Screw Collet Chuck PSC 后拉刀柄

DIN 69871

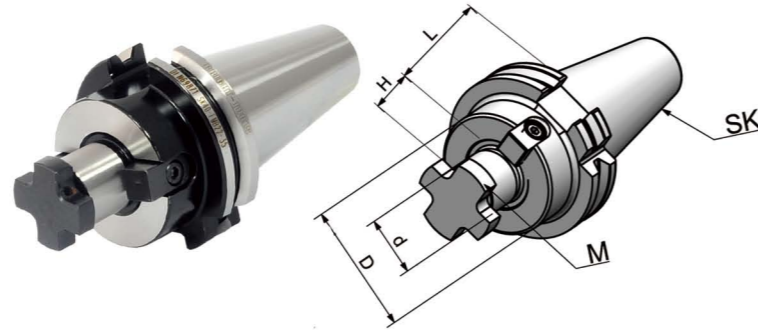
Runout: 0.003 mm
Cooling: AD
Balancing: G6.3/15000 RPM
Advantage: worm and gear design for better rigidity;
 Use a hex key to lock easily.



Size	D	L	L1	Capacity
SK30-PSC14-92	30	92	11	2-14
SK30-PSC14-142	30	142	61	2-14
SK30-PSC20-92	40	92	20	2-20
SK40-PSC14-63	30	63	11	2-14
SK40-PSC14-112 D=24	24	112	38	2-14
SK40-PSC14-112	30	112	61	2-14
SK40-PSC14-149	30	149	85	2-14
SK40-PSC20-63	40	63	20	2-20
SK40-PSC20-112	40	112	69	2-20
SK40-PSC20-149	40	149	103	2-20
SK50-PSC20-62	40	62	18	2-20
SK50-PSC20-112	40	112	48	2-20
SK50-PSC20-149	40	149	104	2-20

Face Mill Holder DIN6357 面铣刀柄

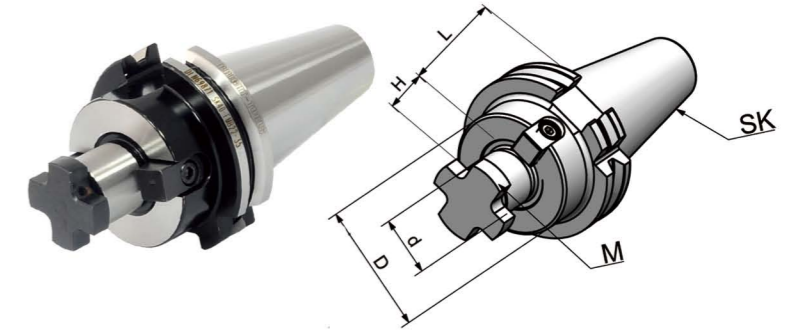
Runout: 0.005 mm
Cooling: Central Coolant
 AD and AD/B can be made by request.
Balancing: G6.3/15000 RPM
 Balancing G2.5 can be made by request.
Usage: for holding tools like shell mill cutters.


DIN 69871

Size	d	D	L	H	M
SK30-FMB16-40	16	38	40	17	M8
SK30-FMB22-40	22	48	40	19	M10
SK30-FMB27-50	27	58	50	21	M12
SK30-FMB32-50	32	78	50	24	M16
SK40-FMB16-35	16	38	35	17	M8
SK40-FMB22-35	22	48	35	19	M10
SK40-FMB27-40	27	58	40	21	M12
SK40-FMB32-50	32	78	50	24	M16
SK40-FMB40-50	40	88	50	27	M20
SK40-FMB16-100	16	38	100	17	M8
SK40-FMB22-100	22	48	100	19	M10
SK40-FMB27-100	27	58	100	21	M12
SK40-FMB32-100	32	78	100	24	M16
SK40-FMB40-100	40	88	100	27	M20
SK40-FMB16-160	16	38	160	17	M8
SK40-FMB22-160	22	48	160	19	M10
SK40-FMB27-160	27	58	160	21	M12
SK40-FMB32-160	32	78	160	24	M16
SK40-FMB40-160	40	88	160	27	M20

Face Mill Holder DIN6357 面铣刀柄

Runout: 0.005 mm
Cooling: Central Coolant
 AD and AD/B can be made by request.
Balancing: G6.3/15000 RPM
 Balancing G2.5 can be made by request.
Usage: for holding tools like shell mill cutters.

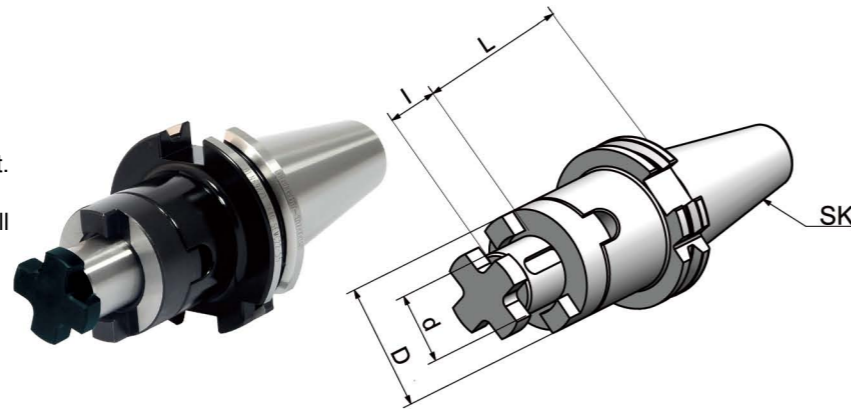

DIN 69871

Size	d	D	L	H	M
SK50-FMB16-45	16	38	45	17	M8
SK50-FMB22-45	22	48	45	19	M10
SK50-FMB27-45	27	58	45	21	M12
SK50-FMB32-55	32	78	55	24	M16
SK50-FMB40-55	40	88	55	27	M20
SK50-FMB16-100	16	38	100	17	M8
SK50-FMB22-100	22	48	100	19	M10
SK50-FMB27-100	27	58	100	21	M12
SK50-FMB32-100	32	78	100	24	M16
SK50-FMB40-100	40	88	100	27	M20
SK50-FMB16-160	16	38	160	17	M8
SK50-FMB22-160	22	48	160	19	M10
SK50-FMB27-160	27	58	160	21	M12
SK50-FMB32-160	32	78	160	24	M16
SK50-FMB40-160	40	88	160	27	M20

Combi Shell Mill Holder DIN6358

混合插入式铣刀柄

Runout: 0.005 mm
Cooling: Central Coolant
 AD and AD/B can be made by request.
Balancing: G6.3/15000 RPM
Usage: for holding tools like shell mill cutters and angular milling cutters.

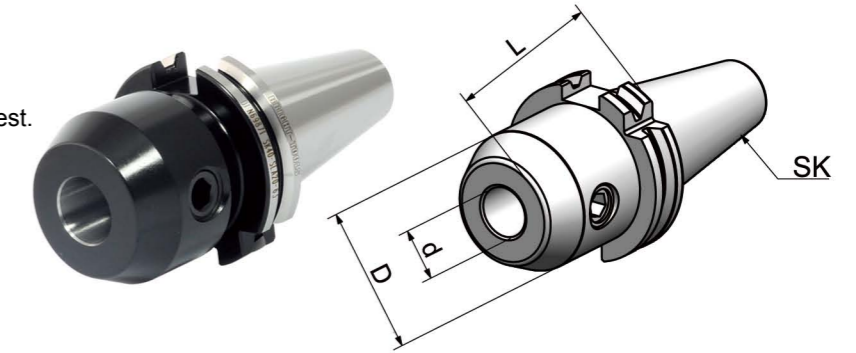

DIN 69871

Size	d	D	l	L
SK30-SEMC16-50	16	32	17	50
SK30-SEMC22-50	22	40	19	50
SK30-SEMC27-55	27	48	21	55
SK30-SEMC32-60	32	58	24	60
SK40-SEMC16-55	16	32	17	55
SK40-SEMC22-55	22	40	19	55
SK40-SEMC27-55	27	48	21	55
SK40-SEMC32-60	32	58	24	60
SK40-SEMC40-60	40	70	27	60
SK40-SEMC16-100	16	32	17	100
SK40-SEMC22-100	22	40	19	100
SK40-SEMC27-100	27	48	21	100
SK40-SEMC32-100	32	58	24	100
SK40-SEMC40-100	40	70	27	100
SK50-SEMC16-55	16	32	17	55
SK50-SEMC22-55	22	40	19	55
SK50-SEMC27-55	27	48	21	55
SK50-SEMC32-55	32	58	24	55
SK50-SEMC40-55	40	70	27	55
SK50-SEMC16-100	16	32	17	100
SK50-SEMC22-100	22	40	19	100
SK50-SEMC27-100	27	48	21	100
SK50-SEMC32-100	32	58	24	100
SK50-SEMC40-100	40	70	27	100

End Mill Holder DIN6359/1835B (Weldon)

侧固刀柄

Runout: 0.005 mm
Bore Tolerance: H5
Cooling: AD AD/B can be made by request.
Balancing: G6.3/15000 RPM
Usage: for clamping tools with straight shank and inclined flat DIN1835-B.

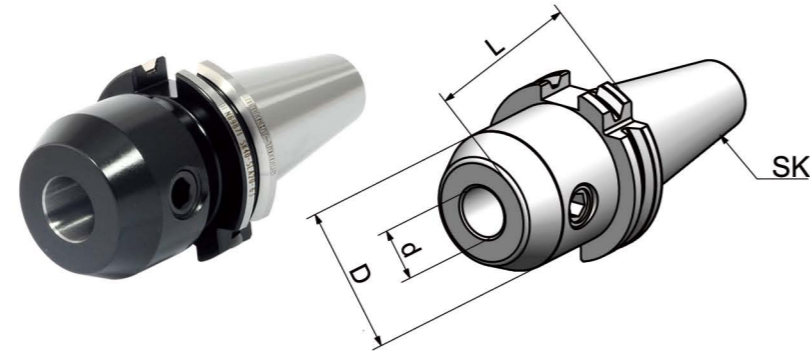

DIN 69871

Size	d	D	L
SK30-SLA6-50	6	25	50
SK30-SLA8-50	8	28	50
SK30-SLA10-50	10	35	50
SK30-SLA12-50	12	42	50
SK30-SLA14-63	14	44	63
SK30-SLA16-63	16	48	63
SK30-SLA18-63	18	50	63
SK30-SLA20-63	20	52	63
SK40-SLA6-50	6	25	50
SK40-SLA8-50	8	28	50
SK40-SLA10-50	10	35	50
SK40-SLA12-50	12	42	50
SK40-SLA14-50	14	44	50
SK40-SLA16-63	16	48	63
SK40-SLA18-63	18	50	63
SK40-SLA20-63	20	52	63
SK40-SLA25-100	25	65	100
SK40-SLA32-100	32	72	100
SK40-SLA40-120	40	80	120
SK40-SLA6-100	6	25	100
SK40-SLA8-100	8	28	100
SK40-SLA10-100	10	35	100
SK40-SLA12-100	12	42	100
SK40-SLA14-100	14	44	100
SK40-SLA16-100	16	48	100
SK40-SLA18-100	18	50	100
SK40-SLA20-100	20	52	100

End Mill Holder DIN6359/1835B (Weldon)

侧固刀柄

Runout: 0.005 mm
Bore Tolerance: H5
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM
Usage: for clamping tools with straight shank and inclined flat DIN1835-B.



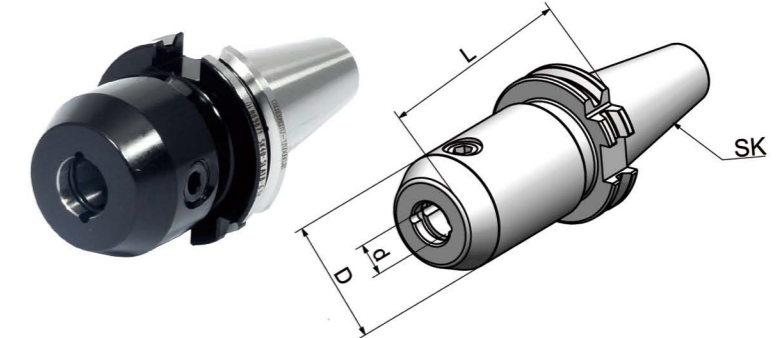
DIN 69871

Size	d	D	L
SK40-SLA6-160	6	25	160
SK40-SLA8-160	8	28	160
SK40-SLA10-160	10	35	160
SK40-SLA12-160	12	42	160
SK40-SLA14-160	14	44	160
SK40-SLA16-160	16	48	160
SK40-SLA18-160	18	50	160
SK40-SLA20-160	20	52	160
SK40-SLA25-160	25	65	160
SK40-SLA32-160	32	72	160
SK40-SLA40-160	40	80	160
SK50-SLA6-63	6	25	63
SK50-SLA8-63	8	28	63
SK50-SLA10-63	10	35	63
SK50-SLA12-63	12	42	63
SK50-SLA14-63	14	44	63
SK50-SLA16-63	16	48	63
SK50-SLA18-63	18	50	63
SK50-SLA20-63	20	52	63
SK50-SLA25-80	25	65	80
SK50-SLA32-100	32	72	100
SK50-SLA40-100	40	80	100
SK50-SLA50-125	50	100	125

End Mill Holder with Coolant Channels

中心出水侧固刀柄

Runout: 0.005 mm
Bore Tolerance: H5
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM
Usage: for clamping tools with straight shank and inclined flat DIN1835-B.



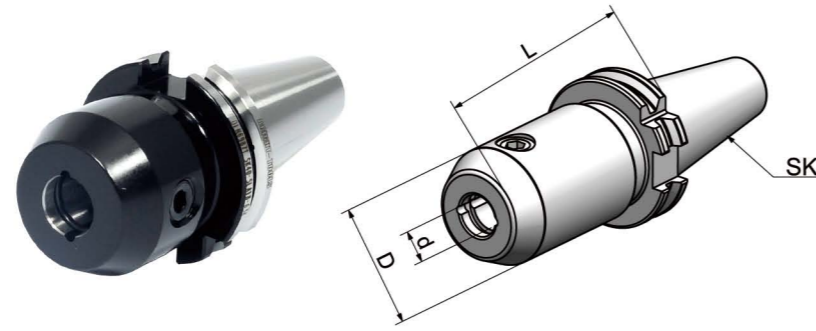
DIN 69871

Size	d	D	L
SK40-SLA6-50K	6	25	50
SK40-SLA8-50K	8	28	50
SK40-SLA10-50K	10	35	50
SK40-SLA12-50K	12	42	50
SK40-SLA14-50K	14	44	50
SK40-SLA16-63K	16	48	63
SK40-SLA18-63K	18	50	63
SK40-SLA20-63K	20	52	63
SK40-SLA25-100K	25	65	100
SK40-SLA32-100K	32	72	100
SK40-SLA40-120K	40	80	120
SK40-SLA6-100K	6	25	100
SK40-SLA8-100K	8	28	100
SK40-SLA10-100K	10	35	100
SK40-SLA12-100K	12	42	100
SK40-SLA14-100K	14	44	100
SK40-SLA16-100K	16	48	100
SK40-SLA18-100K	18	50	100
SK40-SLA20-100K	20	52	100

End Mill Holder with Coolant Channels 中心出水侧固刀柄

DIN 69871

Runout: 0.005 mm
Bore Tolerance: H5
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM
Usage: for clamping tools with straight shank and inclined flat DIN1835-B.

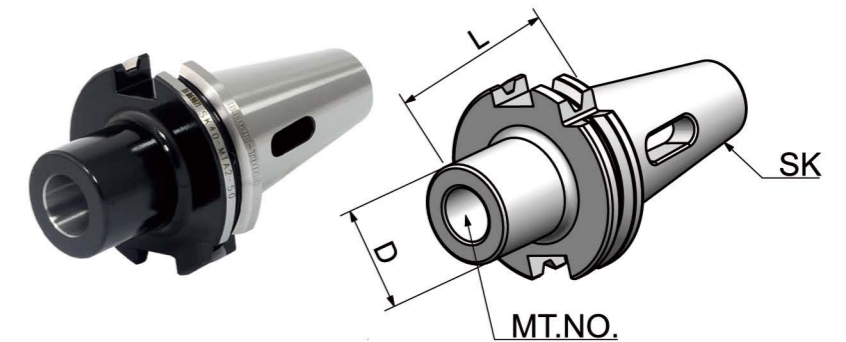


Size	d	D	L
SK50-SLA6-63K	6	25	63
SK50-SLA8-63K	8	28	63
SK50-SLA10-63K	10	35	63
SK50-SLA12-63K	12	42	63
SK50-SLA16-63K	16	48	63
SK50-SLA18-63K	18	50	63
SK50-SLA20-63K	20	52	63
SK50-SLA25-80K	25	65	80
SK50-SLA32-100K	32	72	100
SK50-SLA40-100K	40	90	100
SK50-SLA6-100K	6	25	100
SK50-SLA8-100K	8	28	100
SK50-SLA10-100K	10	35	100
SK50-SLA12-100K	12	42	100
SK50-SLA14-100K	14	44	100
SK50-SLA16-100K	16	48	100
SK50-SLA18-100K	18	50	100
SK50-SLA20-100K	20	52	100
SK50-SLA25-120K	25	65	120

Morse Taper Adapter with Tang DIN6383 带扁尾莫式刀柄

DIN 69871

Runout: 0.005 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM
Usage: for holding tools with Morse taper shank and tang according to DIN 228-1 form B.



Size	MT. NO.	D	L
SK30-MTA1-50	1	25	50
SK30-MTA2-50	2	32	50
SK30-MTA3-75	3	40	75
SK40-MTA1-50	1	25	50
SK40-MTA2-50	2	32	50
SK40-MTA3-70	3	40	70
SK40-MTA4-95	4	48	95
SK50-MTA1-45	1	25	45
SK50-MTA2-60	2	32	60
SK50-MTA3-65	3	40	65
SK50-MTA4-95	4	48	95
SK50-MTA5-105	5	63	105

Morse Taper Adapter with Drawbar DIN6364 带螺纹孔莫式刀柄

Runout: 0.005 mm
Cooling: A
Balancing: G6.3/15000 RPM
Usage: for clamping tools with Morse taper shank and thread according to DIN 228-1 form A.


DIN 69871

Size	MT. NO.	D	L	M
SK40-MTB1-50	1	25	50	M6
SK40-MTB2-50	2	32	50	M10
SK40-MTB3-70	3	40	70	M12
SK40-MTB4-95	4	48	95	M16
SK50-MTB1-45	1	25	45	M6
SK50-MTB2-60	2	32	60	M10
SK50-MTB3-65	3	40	65	M12
SK50-MTB4-70	4	48	70	M16
SK50-MTB5-100	5	63	100	M20

APU Drill Chuck Holder APU 钻夹头刀柄

Runout: 0.005 mm
Cooling: A
Balancing: G6.3/15000 RPM
Usage: for mounting drill chucks.


DIN 69871

Size	D	L	I	Capacity
SK30-APU8-80	38	80	85	1-8
SK30-APU13-120	48	120	130	1-13
SK30-APU16-130	53	130	140.6	3-16
SK40-APU8-75	38	75	80	1-8
SK40-APU13-100	48	100	110	1-13
SK40-APU16-110	53	110	120.6	3-16
SK50-APU8-75	38	75	80	1-8
SK50-APU13-100	48	100	110	1-13
SK50-APU16-105	53	105	115.6	3-16

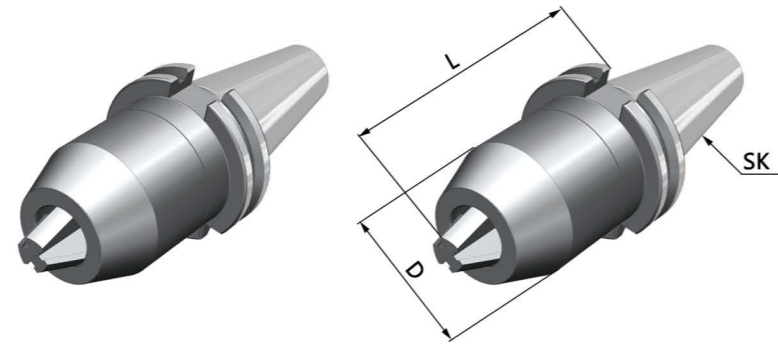
Precision Drill Chuck Holder
精密钻夹头刀柄



DIN 69871

Advantages:

- 1) Runout: 0.03 mm;
- 2) Internal cooling;
- 3) Worm and gear design for better clamping force;
- 4) Use a hex key to lock easily.

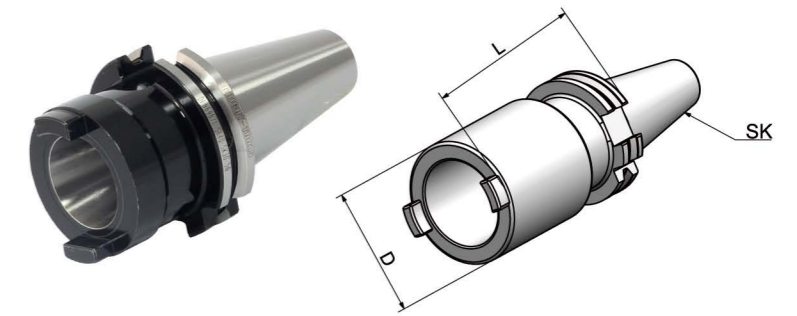


Size	D	L	Capacity
SK30-CPU10-69	38	69	0.5-10
SK40-CPU10-69	38	69	0.5-10
SK40-CPU16-80	50	80	1-16
SK50-CPU16-80	50	80	1-16

Tool Holder Adapter Sleeve
转换刀柄

DIN 69871

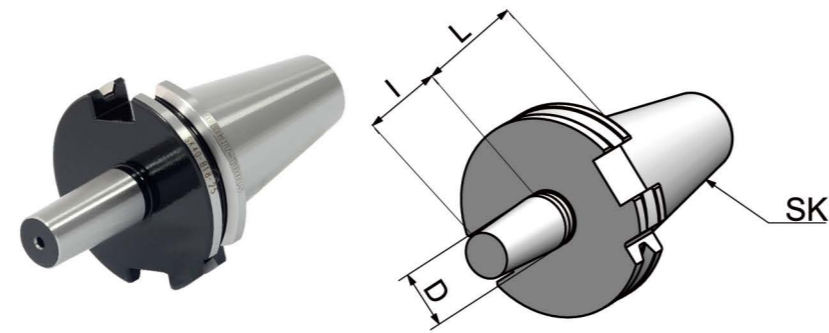
Runout: 0.005 mm
Cooling: A
Balancing: G6.3/15000 RPM
Usage: for mounting tapers DIN 69871, JIS B 6339, and DIN 2080.
Delivery: Additional screw for DIN 2080 tools included.



Size	L	D
SK40-SK30-50	50	51
SK40-SK40-100	100	63
SK50-SK40-70	70	63
SK50-SK50-120	120	97

Drill Chuck Adapter DIN238 钻接杆

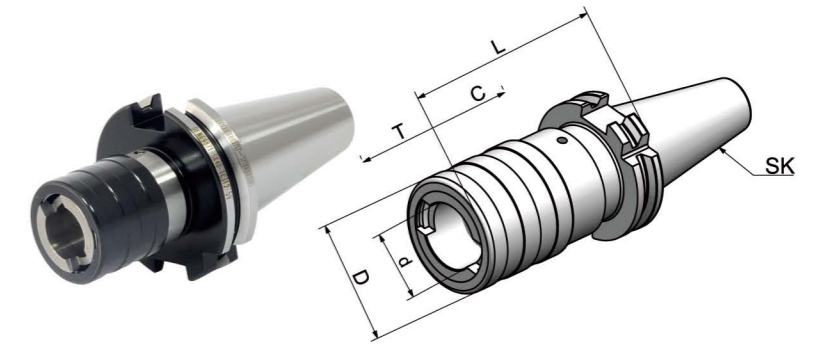
Runout: 0.005 mm
Cooling: A
Balancing: G6.3/15000 RPM
Usage: for mounting drill chucks.


DIN 69871

Size	D	I	L
SK30-B12	B12	18.5	25
SK30-B16	B16	24	25
SK40-B12	B12	18.5	25
SK40-B16	B16	24	25
SK40-B18	B18	32	35
SK50-B12	B12	18.5	25
SK50-B16	B16	24	25
SK50-B18	B18	32	35

Quick Change Tapping Chuck with Length Compensation 弹性快换攻丝刀柄

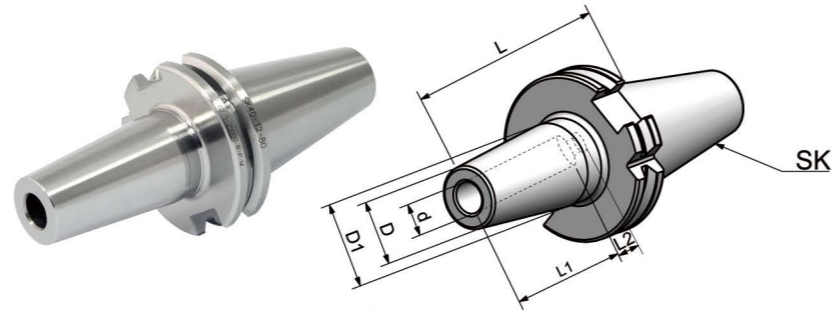
Usage: for tapping preferably.
Axial length compensation on tension and pressure.


DIN 69871

Size	Collet Size	D	d	L	T	C
SK30-TC312-65	1	36	19	65	7.5	7.5
SK30-TC820-99	2	54	31	99	12.5	12.5
SK40-TC312-59	1	36	19	59	7.5	7.5
SK40-TC820-97	2	54	31	97	12.5	12.5
SK40-TC1433-156	3	78	48	156	22	22
SK50-TC312-63	1	36	19	63	7.5	7.5
SK50-TC820-97	2	54	31	97	12.5	12.5
SK50-TC1433-140	3	78	48	140	22	22

Shrink Fit Chuck 热缩刀柄

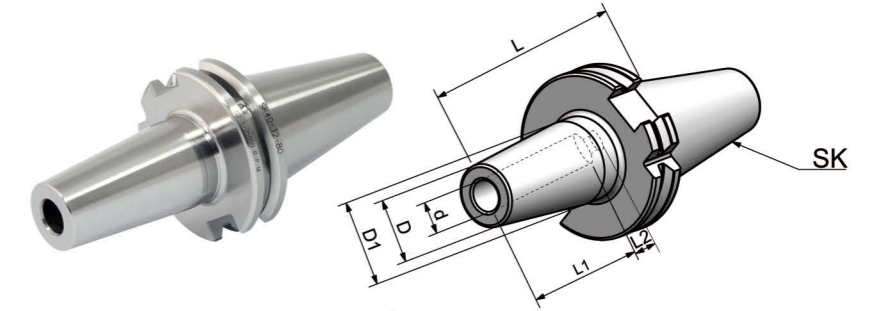
Runout: 0.003 mm
Blancing: G2.5/25000 RPM
Usage: Working with induction shrink machine for mounting straight shank tools.



Size	d	L	D	D1	L1	L2
SK30-SF3-80	3	80	15	20	10	-
SK30-SF4-80	4	80	15	20	20	5
SK30-SF5-80	5	80	15	20	20	5
SK30-SF6-80	6	80	20	27	36	10
SK30-SF8-80	8	80	20	27	36	10
SK30-SF10-100	10	100	24	32	41	10
SK30-SF12-100	12	100	24	32	47	10
SK30-SF14-100	14	100	27	34	47	10
SK30-SF16-100	16	100	27	34	50	10
SK30-SF18-100	18	100	33	42	50	10
SK30-SF20-100	20	100	33	42	52	10
SK40-SF3-80	3	80	15	20	10	-
SK40-SF4-80	4	80	15	20	20	5
SK40-SF5-80	5	80	15	20	20	5
SK40-SF6-80	6	80	20	27	36	10
SK40-SF8-80	8	80	20	27	36	10
SK40-SF10-80	10	80	24	32	41	10
SK40-SF12-80	12	80	24	32	47	10
SK40-SF14-80	14	80	27	34	47	10
SK40-SF16-80	16	80	27	34	50	10
SK40-SF18-80	18	80	33	42	50	10
SK40-SF20-80	20	80	33	42	52	10
SK40-SF25-100	25	100	44	53	58	10
SK40-SF32-100	32	100	44	53	62	10

Shrink Fit Chuck 热缩刀柄

Runout: 0.003 mm
Blancing: G2.5/25000 RPM
Usage: Working with induction shrink machine for mounting straight shank tools.

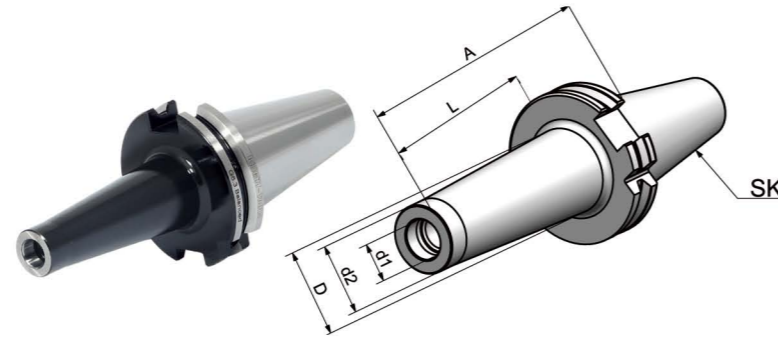


Size	d	L	D	D1	L1	L2
SK50-SF3-80	3	80	15	20	10	-
SK50-SF4-80	4	80	15	20	20	5
SK50-SF5-80	5	80	15	20	20	5
SK50-SF6-80	6	80	20	27	36	10
SK50-SF8-80	8	80	20	27	36	10
SK50-SF10-80	10	80	24	32	41	10
SK50-SF12-80	12	80	24	32	47	10
SK50-SF14-80	14	80	27	34	47	10
SK50-SF16-80	16	80	27	34	50	10
SK50-SF18-80	18	80	33	42	50	10
SK50-SF20-80	20	80	33	42	52	10
SK50-SF25-100	25	100	44	53	58	10
SK50-SF32-100	32	100	44	53	62	10

Screw-in Milling Cutter Holder SOM 锁牙刀柄

DIN 69871

Runout: 0.005 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM;
Usage: for mounting screw-in cutters with thread.

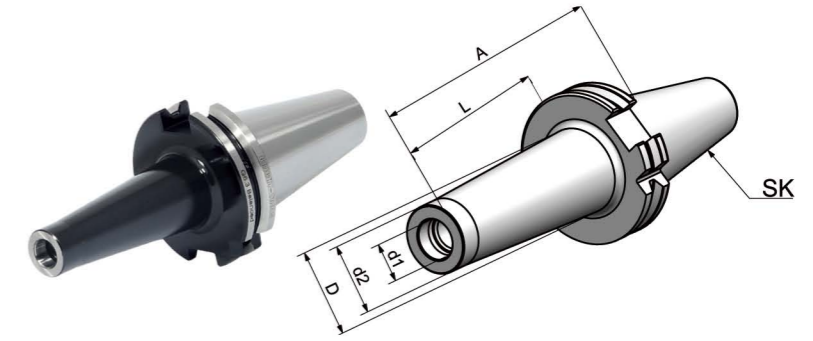


Size	M	d1	d2	A	L	D
SK40-SOM08-44 L=25	8	8.5	14.5	44	25	15
SK40-SOM08-69 L=50	8	8.5	14.5	69	50	23
SK40-SOM08-94 L=75	8	8.5	14.5	94	75	23
SK40-SOM08-119 L=100	8	8.5	14.5	119	100	25
SK40-SOM10-24 L=5	10	10.5	18	24	5	18
SK40-SOM10-44 L=25	10	10.5	18	44	25	20
SK40-SOM10-69 L=50	10	10.5	18	69	50	23
SK40-SOM10-94 L=75	10	10.5	18	94	75	28
SK40-SOM10-119 L=100	10	10.5	18	119	100	32
SK40-SOM10-169 L=150	10	10.5	18	169	150	36.5
SK40-SOM12-24 L=5	12	12.5	21	24	5	21
SK40-SOM12-44 L=25	12	12.5	21	44	25	24
SK40-SOM12-69 L=50	12	12.5	21	69	50	24
SK40-SOM12-94 L=75	12	12.5	21	94	75	31
SK40-SOM12-119 L=100	12	12.5	21	119	100	33
SK40-SOM12-144 L=125	12	12.5	21	144	125	36
SK40-SOM12-169 L=150	12	12.5	21	169	150	40
SK40-SOM16-24 L=5	16	17	29	24	5	29
SK40-SOM16-44 L=25	16	17	29	44	25	29
SK40-SOM16-69 L=50	16	17	29	69	50	34
SK40-SOM16-94 L=75	16	17	29	94	75	34
SK40-SOM16-119 L=100	16	17	29	119	100	36
SK40-SOM16-144 L=125	16	17	29	144	125	40
SK40-SOM16-169 L=150	16	17	29	169	150	42.5

Screw-in Milling Cutter Holder SOM 锁牙刀柄

DIN 69871

Runout: 0.005 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM;
Usage: for mounting screw-in cutters with thread.

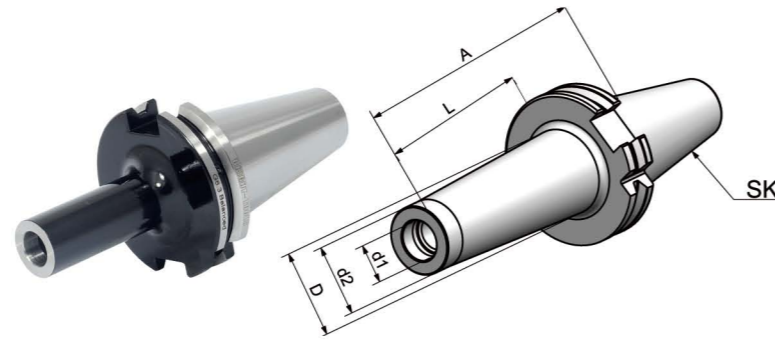


Size	M	d1	d2	A	L	D
SK50-SOM08-69 L=50	8	8.5	14.5	69	50	23
SK50-SOM08-119 L=100	8	8.5	14.5	119	100	25
SK50-SOM08-169 L=150	8	8.5	14.5	169	150	30
SK50-SOM10-69 L=50	10	10.5	18	69	50	23
SK50-SOM10-119 L=100	10	10.5	18	119	100	32
SK50-SOM10-169 L=150	10	10.5	18	169	150	36.5
SK50-SOM12-69 L=50	12	12.5	21	69	50	24
SK50-SOM12-119 L=100	12	12.5	21	119	100	33
SK50-SOM12-169 L=150	12	12.5	21	169	150	40
SK50-SOM16-69 L=50	16	17	29	69	50	34
SK50-SOM16-119 L=100	16	17	29	119	100	36
SK50-SOM16-169 L=150	16	17	29	169	150	42.5

Screw-in Milling Cutter Holder SOM 锁牙刀柄

DIN 69871

Runout: 0.005 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM;
Usage: for mounting screw-in cutters with thread.

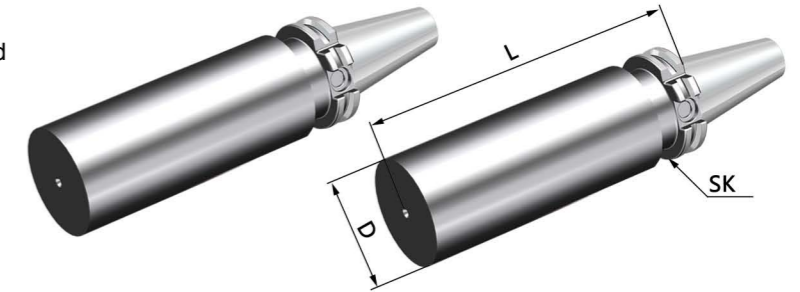


Size	M	d1	d2	A	L
SK40-M10-119 L=100	10	10.5	18	119	100
SK40-M10-169 L=150	10	10.5	18	169	150
SK40-M12-119 L=100	12	12.5	21	119	100
SK40-M12-144 L=125	12	12.5	21	144	125
SK40-M12-169 L=150	12	12.5	21	169	150
SK40-M16-119 L=100	16	17	29	119	100
SK40-M16-144 L=125	16	17	29	144	125
SK40-M16-169 L=150	16	17	29	169	150
SK50-M10-119 L=100	10	10.5	18	119	100
SK50-M10-169 L=150	10	10.5	18	169	150
SK50-M12-119 L=100	12	12.5	21	119	100
SK50-M12-169 L=150	12	12.5	21	169	150
SK50-M16-119 L=100	16	17	29	119	100
SK50-M16-169 L=150	16	17	29	169	150

Boring Bar Blank 基础柄

DIN 69871

Usage: used for special tools; taper and flange are hardened and grinded, soft blank side for later processing.



Size	D	L
SK30-45-200	45	200
SK40-50-200	50	200
SK40-50-250	50	250
SK40-63-250	63	250
SK50-97-160	97	160
SK50-97-250	97	250

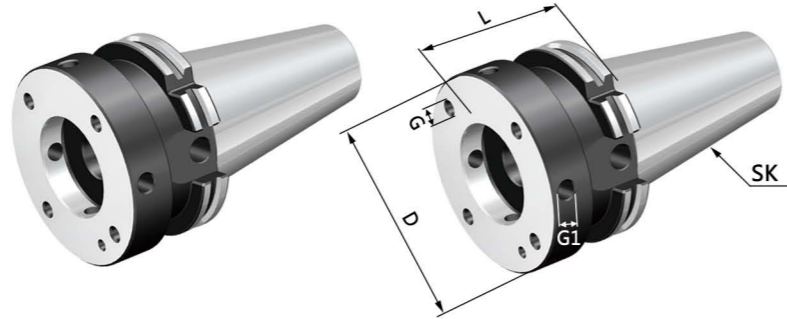
Other sizes can be made by request.

Runout Adjustable Flange Adapter

可调节精度法兰刀柄

DIN 69871

Runout: can be adjusted to 0.002mm
Surface Flatness: 0.002 mm
Surface Runout: 0.002 mm
Balancing: G6.3/15000 RPM
Usage: flange connection, use screws to adjust tool holder runout.

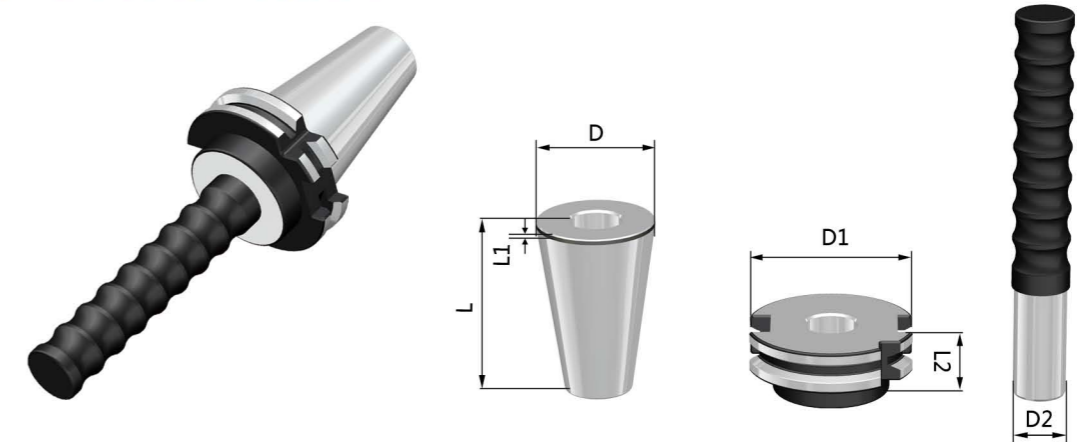


Size	SK	D	L	G	G1
SK30-MOD060-050	30	60	50	M5	M8x1
SK30-MOD070-050	30	70	50	M6	M8x1
SK40-MOD060-050	40	60	50	M5	M8x1
SK40-MOD070-050	40	70	50	M6	M8x1
SK40-MOD080-055	40	80	55	M6	M8x1
SK40-MOD100-060	40	100	60	M8	M10x1
SK45-MOD060-050	45	60	50	M5	M8x1
SK45-MOD070-050	45	70	50	M6	M8x1
SK45-MOD080-055	45	80	55	M6	M8x1
SK45-MOD100-060	45	100	60	M8	M10x1
SK45-MOD117-060	45	117	60	M8	M10x1
SK50-MOD060-050	50	60	50	M5	M8x1
SK50-MOD070-050	50	70	50	M6	M8x1
SK50-MOD080-050	50	80	50	M6	M8x1
SK50-MOD100-060	50	100	60	M8	M10x1
SK50-MOD117-060	50	117	60	M8	M10x1
SK50-MOD140-060	50	140	60	M10	M10x1

Alignment Tool for ATC Arm

调整机械手用组合模具

DIN 69871



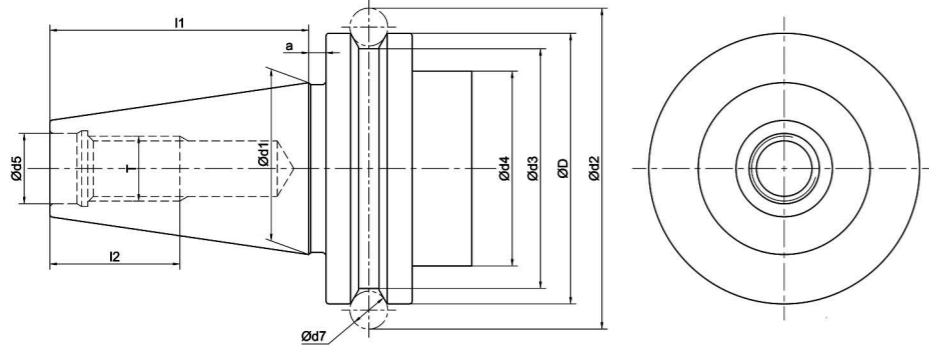
Size	D	D1	D2	L	L1	L2	L3	M
SK30-ATC-18D	31.75	50	18	51	3.2	20	15.9	M12
SK40-ATC-20D	44.45	63.55	20	71.6	3.2	25	15.9	M12
SK50-ATC-28D	69.85	97.5	28	104.95	3.2	35	15.9	M16

Usage:

- 1) Put the Taper to the machine Spindle
- 2) Install flange to the ATC arm
- 3) Insert Pin into the flange
- 4) Adjust ATC arm and make sure the pin front part into the flange completely.



ISO Taper Standard ISO 锥柄标准



Size	D	d1	d2	d3	d4	d5	d7	l1	l2
ISO30	50	31.75	59.3	44.3	45	13	7	47.8	24
ISO40	63.55	44.45	72.3	56.25	50	17	7	68.4	32

Material: Alloyed case hardened steel
Surface Treatment: Blackening and Bright
Taper tolerance: <AT3
Hardness: HRC 58-62
Carbon depth: 0.8±0.2mm
Surface Roughness: Ra<0.005mm
Balancing: G2.5/25000
Cooling: AD



ISO



ER Collet Chuck ----- 37
ER弹簧夹头刀柄 ----- 37



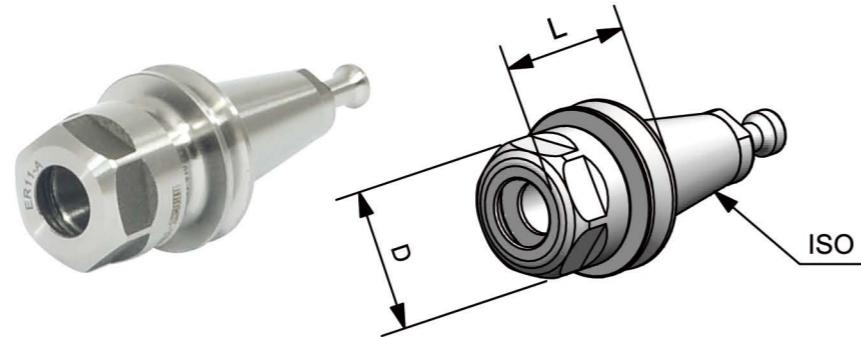
ER Collet Chuck ----- 38
ER弹簧夹头刀柄 ----- 38



ER Collet Chuck ----- 39
ER弹簧夹头刀柄 ----- 39

ER Collet Chuck DIN6499 without Drive Slots 无驱动槽ER刀柄

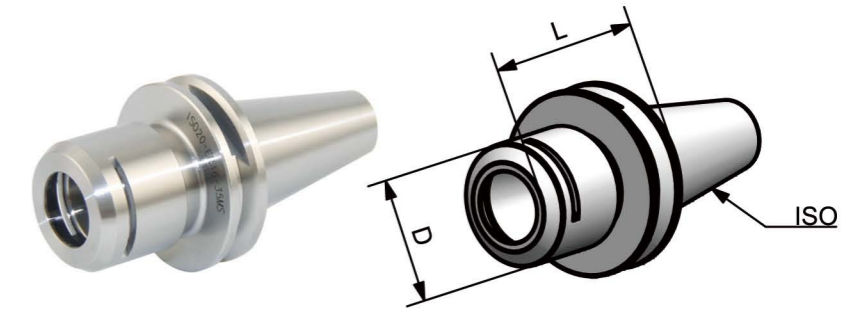
Runout: 0.003 mm
Cooling: AD
Usage: for clamping tools with straight shank in collets DIN 6499.



Size	D	L	Capacity	M
ISO10-ER11A-25	19	25	1-7	M14*0.75
ISO10-ER11M-25	16	25	1-7	M13*0.75

ER Collet Chuck DIN6499 without Drive Slots 无驱动槽ER刀柄

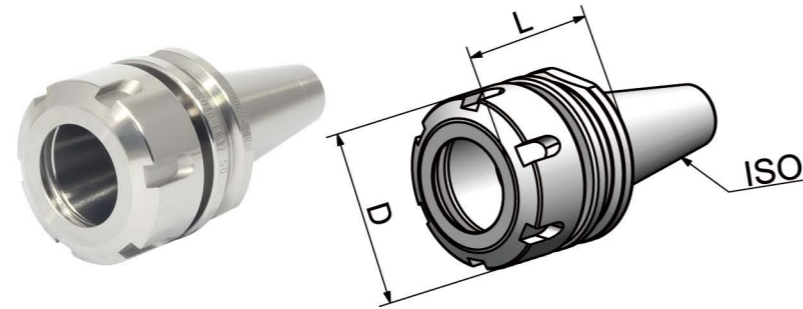
Runout: 0.003 mm
Cooling: AD
Balancing: G2.5/25000 RPM;
Usage: for clamping tools with straight shank in collets DIN 6499.



Size	D	L	Capacity	M
ISO20-ER16A-35	28	35	1-10	M22*1.5
ISO20-ER20A-35	34	35	1-13	M25*1.5
ISO25-ER16A-35	28	35	1-10	M22*1.5
ISO25-ER20A-35	34	35	1-13	M25*1.5
ISO25-ER25UM-35	42	35	2-16	M32*1.5

ER Collet Chuck DIN6499 without Drive Slots 无驱动槽ER刀柄

Runout: 0.003 mm
Cooling: AD
Balancing: G2.5/25000 RPM;
Usage: for clamping tools with straight shank in collets DIN 6499.



Size	D	L	Capacity	M
ISO30-ER16A-50	28	50	1-10	M22*1.5
ISO30-ER20A-50	34	50	1-13	M25*1.5
ISO30-ER25-50	42	50	2-16	M32*1.5
ISO30-ER32-50	50	50	2-20	M40*1.5
ISO30-ER40-60	63	60	3-26	M50*1.5

NTF



Bright-tools

NTF

*DIN 2080
NT Tool Holders*

BRIGHT-TOOLS

Add: Chongde 5th Avenue, Dezhou, Shandong, China

Tel: +86-534-8127522/33/88; +86-534-2356966

Web: <http://www.bright-tools.com>

Email: sales@bright-tools.com

山东金杰机械有限公司
SHANDONG JINJIE MACHINERY CO., LTD

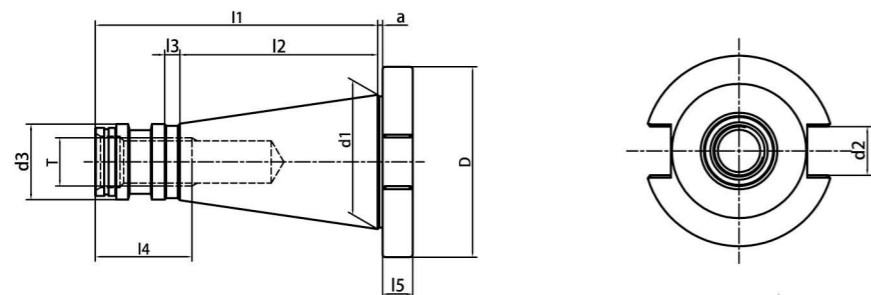
NT

BRIGHT-TOOLS



NT Taper Standard

NT 锥柄标准

DIN 2080


Size	D	d1	d2	d3	a	l1	l2	l3	l4	l5	T
NT30	50	31.75	16.1	17.04	1.6	68.4	48.4	3	24	8	M12
NT40	63	44.45	16.1	24.92	1.6	93.4	65.4	5	32	10	M16
NT50	97.5	69.85	25.7	39.19	3.2	126.8	101.8	8	47	12	M24

Taper standard: DIN 2080

Material: Alloyed case hardened steel

Surface Treatment: Blackening and Bright

Taper tolerance: <AT3

Hardness: HRC 58-62

Carbon depth: 0.8±0.2mm

Surface Roughness: Ra<0.005mm

NT

 ER Collet Chuck ----- 03
 ER弹簧夹头刀柄 ----- 03

 Power Milling Chuck----- 05
 强力铣刀柄 ----- 05

 OZ Collet Chuck ----- 06
 OZ夹头刀柄 ----- 06

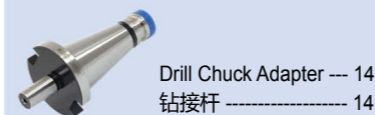
 Face Mill Holder ----- 07
 面铣刀柄 ----- 07

 Combi Shell Mill Holder ---- 09
 混合插入式铣刀柄 ----- 09

 End Mill Holder----- 10
 侧固刀柄 ----- 10

 Morse Taper Adapter ---- 11
 带扁尾莫式刀柄 ----- 11

 Morse Taper Adapter ----- 12
 带螺纹孔莫式刀柄 ----- 12

 Tool Holder Adatper Sleeve -- 13
 转换刀柄 ----- 13

 Drill Chuck Adapter --- 14
 钻接杆 ----- 14

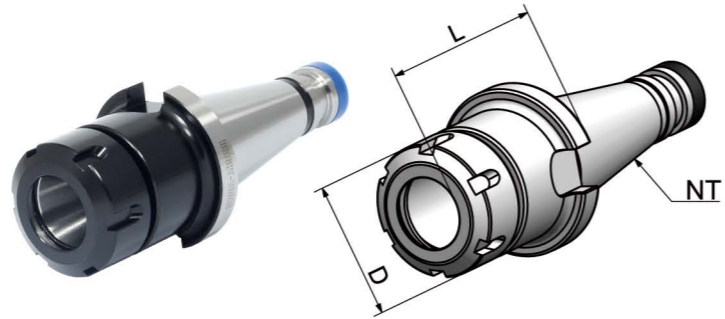
 APU Drill Chuck Holder --- 15
 APU钻夹头刀柄 ----- 15

 Quick Change Tapping Chuck ---- 16
 弹性快换攻丝刀柄 ----- 16

ER Collet Chuck DIN6499 ER 弹簧夹头刀柄

DIN 2080

Runout: 0.003 mm
Cooling: AD
Usage: for clamping tools with straight shank in collets DIN 6499.

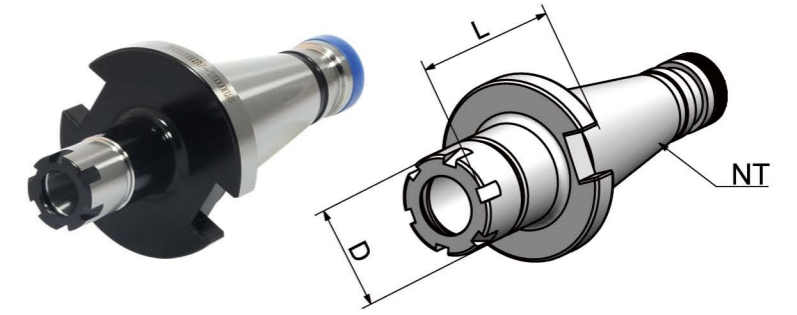


Size	D	L	Capacity
NT30-ER16A-50	28	50	1-10
NT30-ER20A-50	34	50	1-13
NT30-ER25-50	42	50	2-16
NT30-ER32-50	50	50	2-20
NT30-ER40-80	63	80	4-26
NT40-ER16A-50 OTT	28	50	1-10
NT40-ER25-50 OTT	42	50	1-13
NT40-ER32-60 OTT	50	60	3-20
NT40-ER40-80 OTT	63	80	4-26
NT40-ER16A-100 OTT	28	100	1-10
NT40-ER20A-100 OTT	34	100	1-13
NT40-ER25-100 OTT	42	100	2-16
NT40-ER32-100 OTT	50	100	3-20
NT50-ER32-70 OTT	50	70	1-20
NT50-ER40-70 OTT	63	70	2-26
NT50-ER50-90 OTT	78	90	6-34
NT50-ER16A-100 OTT	28	100	1-10
NT50-ER20A-100 OTT	34	100	1-13
NT50-ER32-100 OTT	50	100	3-20
NT50-ER40-100 OTT	63	100	4-26

ER Collet Chuck with Mini Nut DIN6499 ER 弹簧夹头刀柄

DIN 2080

Runout: 0.003 mm
Cooling: AD;
Usage: for clamping tools with straight shank in collets DIN 6499.

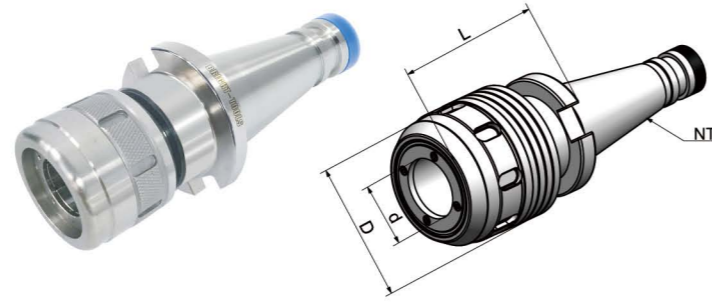


Size	D	L	Capacity
NT30-ER16M-70	22	70	1-10
NT30-ER20M-70	28	70	1-13
NT30-ER25M-70	35	70	2-16
NT40-ER16M-60 OTT	22	60	1-10
NT40-ER20M-60 OTT	28	60	1-13
NT40-ER25M--60 OTT	35	60	2-16

Power Milling Chuck 强力铣刀柄

DIN 2080

Runout: 0.01 mm
Cooling: AD
Usage: for clamping tools with straight collets or clamping same diameter cutting tools directly



Size	d	D	L	Capacity	M
NT40-HC25-90	25	59	90	3-20; 25	M16
NT40-HC32-90	32	70	90	3-25; 32	M16
NT40-HC32-105	32	70	105	3-25; 32	M16
NT50-HC25-85	25	59	85	3-20; 25	M24
NT50-HC32-90	32	70	90	3-25; 32	M24
NT50-HC42-95	42	99	95	3-32; 42	M24
NT50-HC25-150	25	59	150	3-20; 25	M24
NT50-HC32-150	32	70	150	3-25; 32	M24
NT50-HC42-150	42	99	150	3-32; 42	M24

OZ Collet Chuck DIN6391 OZ 夹头刀柄

DIN 2080

Runout: 0.005 mm
Cooling: AD
Usage: for clamping tools with straight shank in collets DIN 6388.

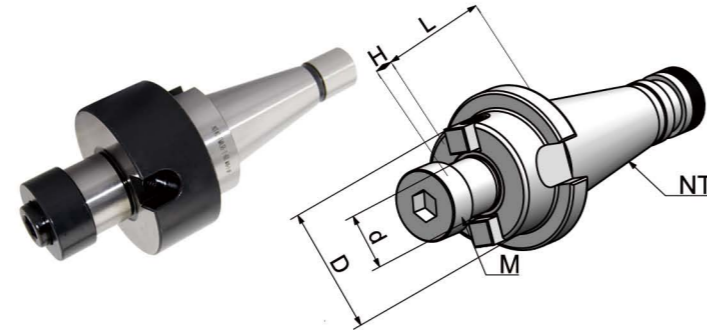


Size	D	L	Capacity
NT30-OZ16-50	43	50	2-16
NT30-OZ25-70	60	70	3-25
NT40-OZ16-70	43	70	2-16
NT40-OZ25-70	60	70	3-25
NT40-OZ32-80	72	80	6-32
NT50-OZ25-70	60	70	3-25
NT50-OZ32-80	72	80	6-32

Face Mill Holder Inch 英制面铣刀柄

DIN 2080

Runout: 0.005 mm
Cooling: Central Coolant
Usage: for holding tools like shell mill cutters.

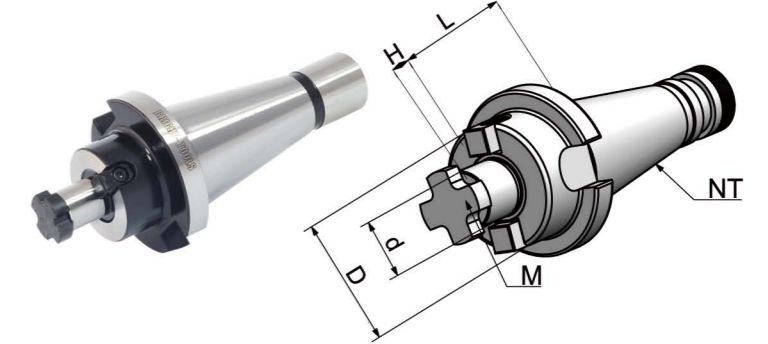


Size	d	D	L	H	M
NT30-FMA25.4-20	25.4	50	20	20	M12
NT30-FMA31.75-25	31.75	60	25	22	M16
NT30-FMA38.1-30	38.1	80	30	25	M20
NT40-FMA25.4-20	25.4	50	25	20	M12
NT40-FMA31.75-25	31.75	60	25	22	M16
NT40-FMA38.1-30	38.1	80	30	25	M20
NT40-FMA50.8-35	50.8	98	35	36	M24
NT50-FMA25.4-35	25.4	50	35	20	M12
NT50-FMA31.75-35	31.75	60	35	22	M16
NT50-FMA38.1-35	38.1	80	35	25	M20
NT50-FMA50.8-35	50.8	98	35	36	M24

Face Mill Holder DIN6357 面铣刀柄

DIN 2080

Runout: 0.005 mm
Cooling: Central Coolant
Usage: for holding tools like shell mill cutters.

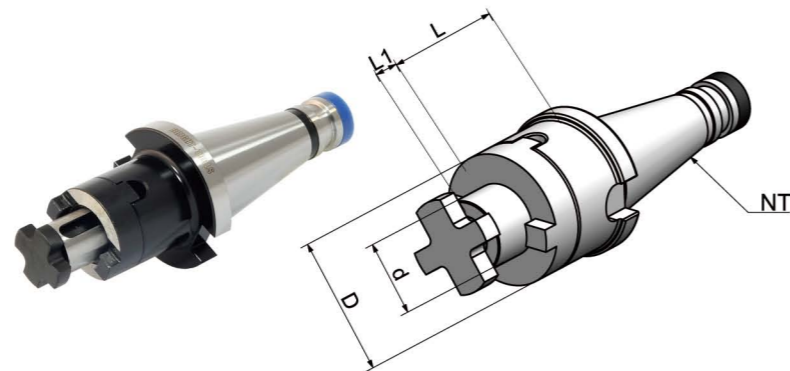


Size	d	D	L	H	M
NT30-FMB16-30	16	38	30	17	M8
NT30-FMB22-30	22	48	30	19	M10
NT30-FMB27-45	27	58	45	21	M12
NT30-FMB32-50	32	78	50	24	M16
NT40-FMB16-30	16	38	30	17	M8
NT40-FMB22-30	22	48	30	19	M10
NT40-FMB27-30	27	58	30	21	M12
NT40-FMB32-30	32	78	30	24	M16
NT40-FMB40-30	40	88	30	27	M16
NT50-FMB16-30	16	38	30	17	M8
NT50-FMB22-35	22	48	35	19	M10
NT50-FMB27-35	27	58	35	21	M12
NT50-FMB32-40	32	78	40	24	M16
NT50-FMB40-40	40	88	40	27	M16

Combi Shell Mill Holder DIN6358

混合插入式铣刀柄

Runout: 0.005 mm
Cooling: Central Coolant
Usage: for holding tools like shell mill cutters and angular milling cutters.

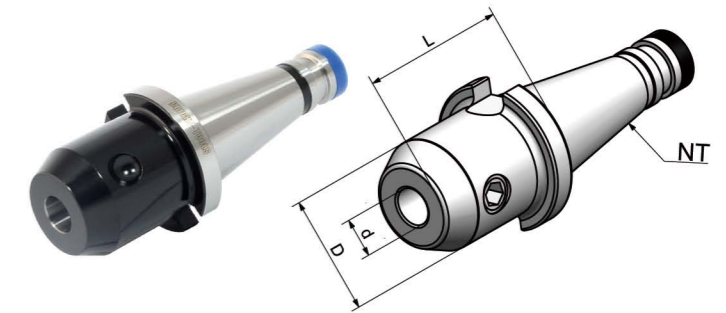

DIN 2080

Size	d	D	L	L1
NT30-SEMC16-35	16	32	35	17
NT30-SEMC22-35	22	40	35	19
NT30-SEMC27-35	27	48	35	21
NT30-SEMC32-50	32	58	50	24
NT40-SEMC16-52	16	32	52	17
NT40-SEMC22-52	22	40	52	19
NT40-SEMC27-52	27	48	52	21
NT40-SEMC32-52	32	58	52	24
NT40-SEMC40-52	40	70	52	27
NT50-SEMC16-55	16	32	55	17
NT50-SEMC22-55	22	40	55	19
NT50-SEMC27-55	27	48	55	21
NT50-SEMC32-55	32	58	55	24
NT50-SEMC40-55	40	70	55	27

End Mill Holder DIN6359/1835B (Weldon)

侧固刀柄

Runout: 0.005 mm
Bore Tolerance: H5
Cooling: AD
Usage: for clamping tools with straight shank and inclined flat DIN1835-B.


DIN 2080

Size	d	D	L
NT30-SLA6-40	6	25	40
NT30-SLA8-40	8	28	40
NT30-SLA10-40	10	35	40
NT30-SLA12-40	12	42	40
NT30-SLA16-50	16	48	50
NT30-SLA18-50	18	50	50
NT30-SLA20-63	20	52	63
NT40-SLA6-50	6	25	50
NT40-SLA8-50	8	28	50
NT40-SLA10-50	10	35	50
NT40-SLA12-50	12	42	50
NT40-SLA14-50	14	44	50
NT40-SLA16-63	16	48	63
NT40-SLA18-63	18	50	63
NT40-SLA20-63	20	52	63
NT40-SLA25-80	25	65	80
NT40-SLA32-80	32	72	80
NT40-SLA40-90	42	80	90
NT50-SLA6-63	6	25	63
NT50-SLA8-63	8	28	63
NT50-SLA10-63	10	35	63
NT50-SLA12-63	12	42	63
NT50-SLA14-63	14	44	63
NT50-SLA16-63	16	48	63
NT50-SLA18-63	18	50	63
NT50-SLA20-63	20	52	63
NT50-SLA25-80	25	65	80
NT50-SLA32-80	32	72	80
NT50-SLA40-90	40	80	90

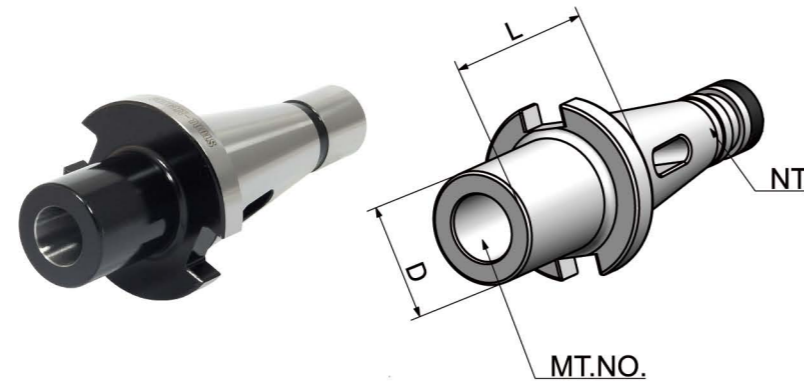
Morse Taper Adapter with Tang DIN6383

带扁尾莫式刀柄

Runout: 0.005 mm

Cooling: AD

Usage: for holding tools with Morse taper shank and tang according to DIN 228-1 form B.



DIN 2080

Size	MT.No.	L	D
NT30-MTA1-50	1	50	25
NT30-MTA2-50	2	50	32
NT30-MTA3-75	3	75	40
NT40-MTA1-50	1	50	25
NT40-MTA2-50	2	50	32
NT40-MTA3-65	3	65	40
NT40-MTA4-95	4	95	48
NT50-MTA1-45	2	45	25
NT50-MTA2-60	2	60	32
NT50-MTA3-65	3	65	40
NT50-MTA4-70	4	70	48
NT50-MTA5-105	5	105	63

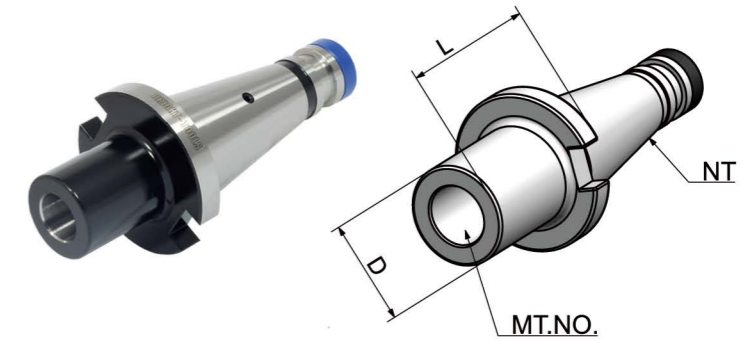
Morse Taper Adapter with Drawbar DIN6364

带螺纹孔莫式刀柄

Runout: 0.005 mm

Cooling: A

Usage: for clamping tools with Morse taper shank and thread according to DIN 228-1 form A.



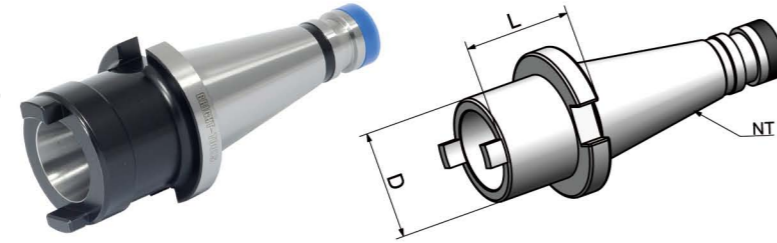
DIN 2080

Size	MT.No.	L	D	M
NT30-MTB1-45	1	45	25	M6
NT30-MTB2-60	2	60	32	M10
NT30-MTB3-70	3	70	40	M12
NT40-MTB1-50	1	50	25	M6
NT40-MTB2-50	2	50	32	M10
NT40-MTB3-65	3	65	40	M12
NT40-MTB4-95	4	95	48	M16
NT50-MTB1-60	2	60	25	M6
NT50-MTB2-60	2	60	32	M10
NT50-MTB3-65	3	65	40	M12
NT50-MTB4-65	4	65	48	M16
NT50-MTB5-120	5	120	63	M20

Tool Holder Adapter Sleeve 转换刀柄

DIN 2080

Runout: 0.005 mm
Cooling: A
Usage: for mounting tapers DIN 69871, JIS B 6339, and DIN 2080.
Delivery: Additional screw for DIN 2080 tools included.

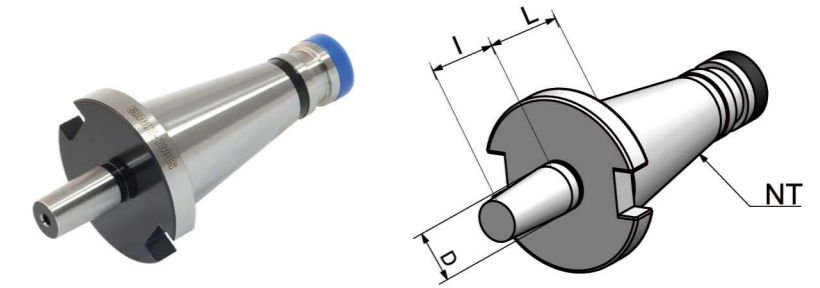


Size	D	L
NT40-NT30-50	51	50
NT40-NT40-100	63	100
NT50-NT40-50	63	50
NT50-NT50-125	97	125

Drill Chuck Adapter DIN238 钻接杆

DIN 2080

Runout: 0.005 mm
Cooling: A
Usage: for mounting drill chucks.

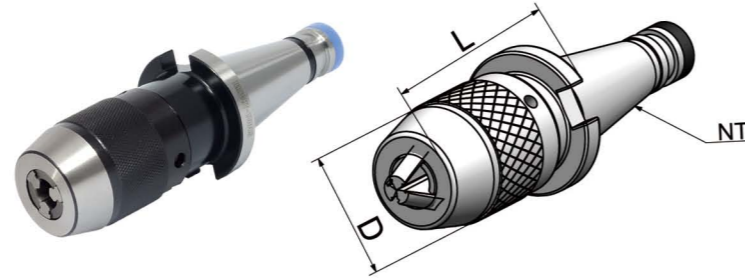


Size	D	L	I
NT30-B12	B12	15	18.5
NT30-B16	B16	17	24
NT40-B12	B12	18	18.5
NT40-B16	B16	18	24
NT40-B18	B18	18	32
NT50-B16	B16	20	24
NT50-B18	B18	20	32

APU Drill Chuck Holder APU 钻夹头刀柄

DIN 2080

Runout: 0.08 mm
Cooling: A; Central cooling is unavailable.
Usage: for clamping tools with straight shank.

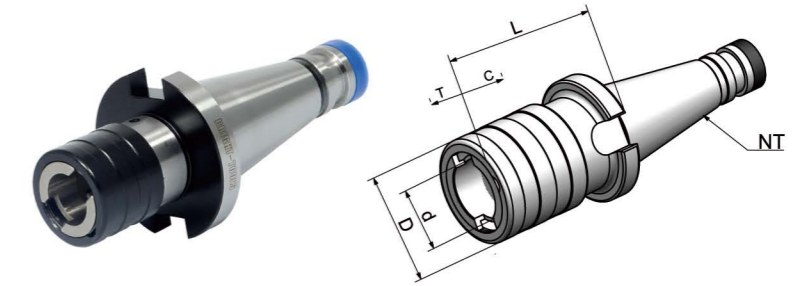


Size	D	L		Capacity
NT30-APU08-80	38	80	90	1-8
NT30-APU13-100	48	100	110	1-13
NT40-APU08-85	38	85	95	1-8
NT40-APU13-110	48	110	120	1-13
NT40-APU16-130	53	130	141	3-16
NT50-APU08-95	38	90	105	1-8
NT50-APU13-120	48	120	130	1-13
NT50-APU16-130	53	130	141	3-16

Quick Change Tapping Chuck with Length Compensation 弹性快换攻丝刀柄

DIN 2080

Usage: for tapping preferably.
 Axial length compensation on tension and pressure.



Size	Collet Size	d	D	L	T	C
NT30-TC312-55	1	19	36	55	7.5	7.5
NT30-TC820-86	2	31	53	86	12.5	12.5
NT40-TC312-55	1	19	36	55	7.5	7.5
NT40-TC820-86	2	31	53	86	12.5	12.5
NT40-TC1433-132	3	48	78	132	22	22
NT50-TC312-62	1	19	36	62	7.5	7.5
NT50-TC820-90	2	31	53	90	12.5	12.5
NT50-TC1433-117	3	48	78	117	22	22

CATF



Bright-tools

CATF

*ANSI B 5.50
CAT Tool Holders*

BRIGHT-TOOLS

Add: Chongde 5th Avenue, Dezhou, Shandong, China

Tel: +86-534-8127522/33/88; +86-534-2356966

Web: <http://www.bright-tools.com>

Email: sales@bright-tools.com

山东金杰机械有限公司
SHANDONG JINJIE MACHINERY CO., LTD

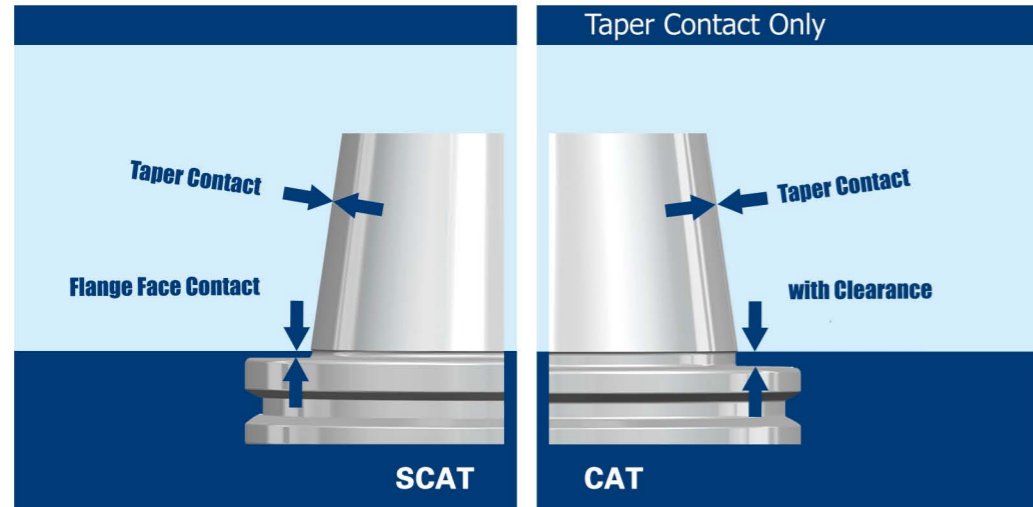
CAT

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SCAT DualDrive (Double Contact) Tool Holders

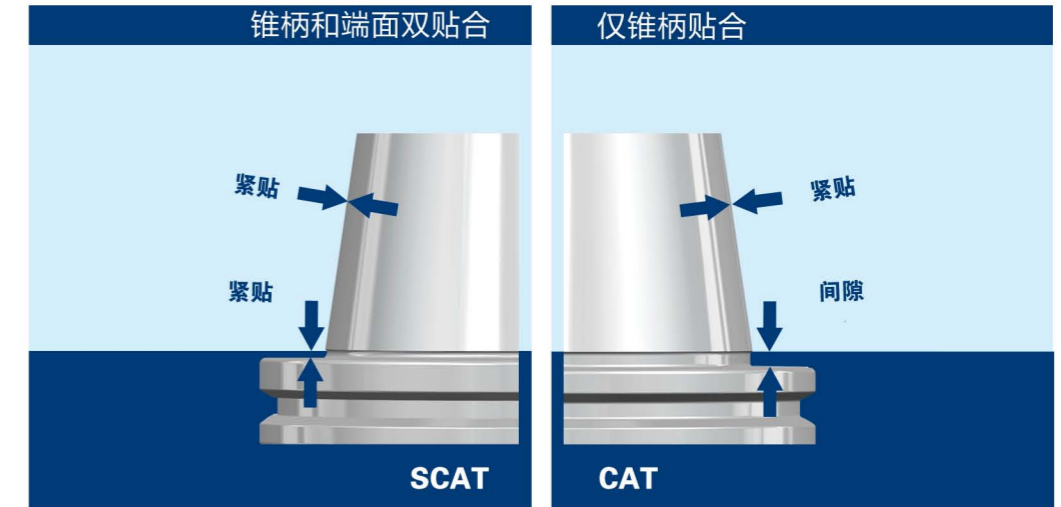


Taper and Flange Face Dual Contact System Advantages:

- * Improve tool holder stability when high speed working.
- * Improve workpiece surface finish.
- * Improve working dimension accuracy.
- * Improve ATC repeatability.
- * Improve the roundness when boring operation.
- * Extend cutting tool life.

ORDER SPECIFICATION:
PLEASE CHANGE CAT SIZES TO SCAT ACCORDINGLY.
PLEASE ORDER SCAT SPINDLE MACHINING CENTERS FOR BETTER PERFORMANCE.

SCAT 双接触刀柄



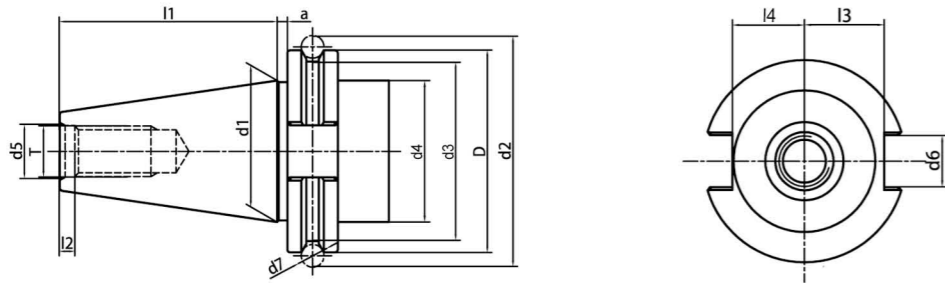
使用 SCAT 双接触刀柄优势：

- * 高速加工时提高刀柄稳定性；
- * 提高工件表面光洁度；
- * 提高加工精度；
- * 提高 ATC 的重复精度；
- * 提高镗孔加工圆度；
- * 增加刀具使用寿命。

订购说明：
请把 CAT 刀柄型号里的 CAT 改为 SCAT 即可；
为了更好的使用效果，请订购带 SCAT 主轴的加工中心。

CAT Taper Standard
CAT 锥柄标准

ANSI B5.50

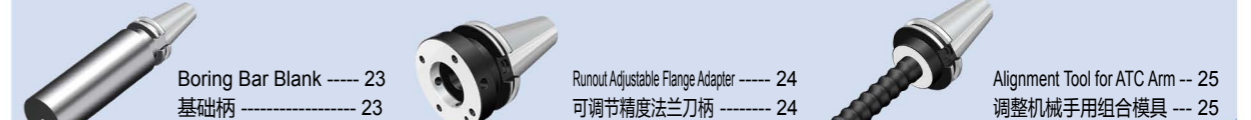
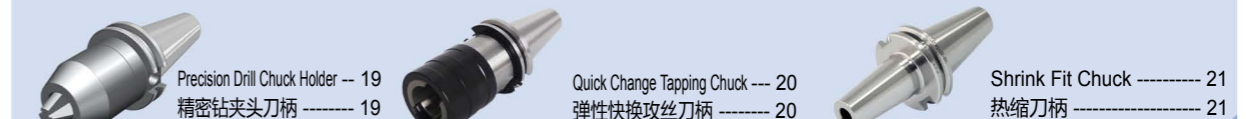
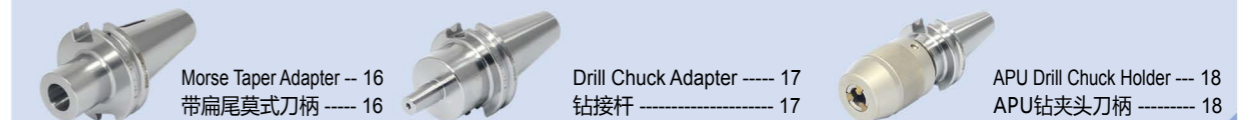
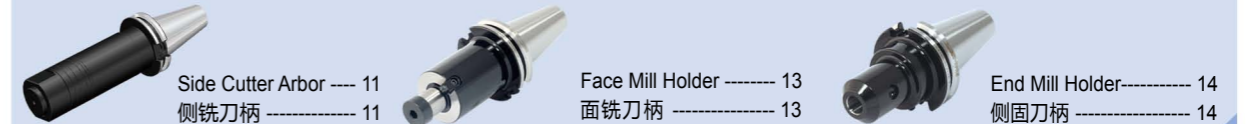
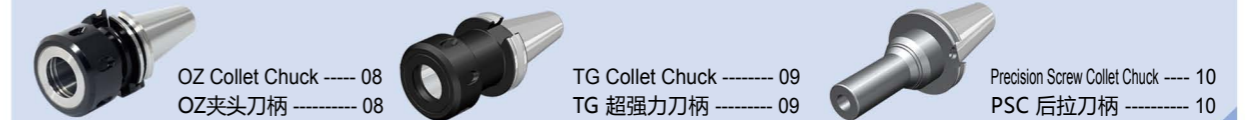
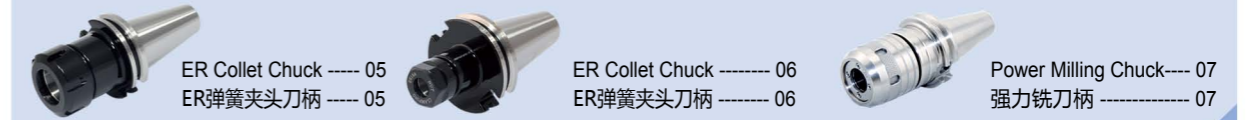


Size	D	d1	d2	d3	d4	d5	d6	d7	l1	l2	l3	l4	l5	T
CAT30	1.812	1.25	2.176	1.531	1.25	0.516	0.645	0.2813	1.875	0.188	0.735	0.64	0.44	1/2-13
CAT40	2.500	1.75	2.863	2.219	1.75	0.641	0.645	0.2813	2.687	0.188	0.985	0.89	0.44	5/8-11
CAT50	3.875	2.75	4.238	3.594	2.75	1.020	1.020	0.2813	4.000	0.250	1.485	1.39	0.44	1-8

Taper standard: ANSI B5.50
Material: Alloyed case hardened steel
Surface Treatment: Blackening and Bright
Taper tolerance: <AT3
Hardness: HRC 58-62
Carbon depth: 0.8±0.2mm
Surface Roughness: Ra<0.005mm
Balancing: G6.3/15000; G2.5/25000
Cooling: AD; AD/B can be made by request.



CAT/SCAT

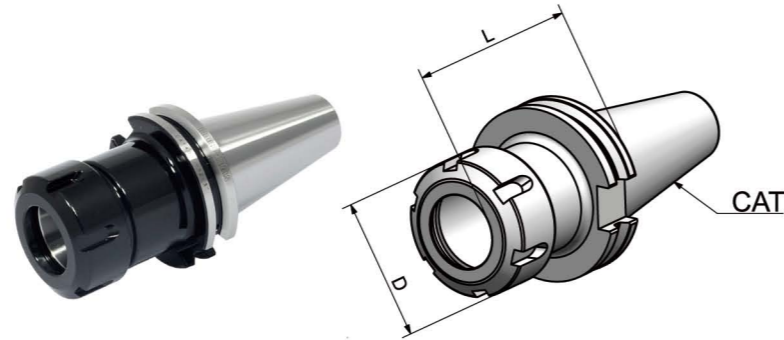


ER Collet Chuck with UM Nut DIN6499

ER 弹簧夹头刀柄

ANSI B5.50

Runout: 0.003 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G2.5/20000 RPM;
 Balancing G6.3 can be made by request.
Usage: for clamping tools with straight shank in collets DIN 6499.



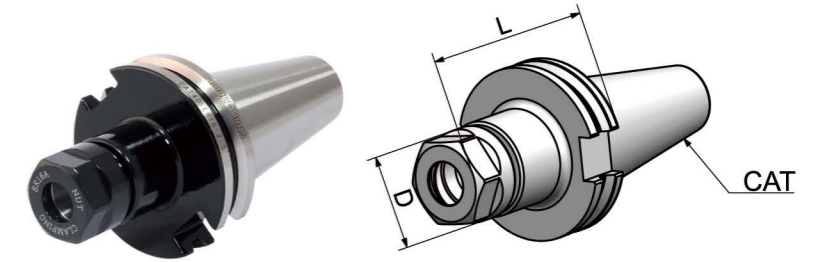
Size	D	L	Capacity
CAT40-ER16UM-2.5"	32	2.5"	1-10
CAT40-ER20UM-2.5"	35	2.5"	1-13
CAT40-ER25-2.5"	42	2.5"	2-16
CAT40-ER32-3"	50	3"	2-20
CAT40-ER40-3"	63	3"	3-26
CAT40-ER16UM-4"	32	4"	1-10
CAT40-ER20UM-4"	35	4"	1-13
CAT40-ER25-4"	42	4"	2-16
CAT40-ER32-4"	50	5"	2-20
CAT40-ER40-4"	63	5"	3-26
CAT40-ER16UM-6"	32	6"	1-10
CAT40-ER20UM-6"	35	6"	1-13
CAT40-ER25-6"	42	6"	2-16
CAT50-ER20UM-2.5"	35	2.5"	1-13
CAT50-ER25-2.5"	42	2.5"	2-16
CAT50-ER16UM-4"	32	4"	1-10
CAT50-ER20-4"	35	4"	1-13
CAT50-ER25-4"	42	4"	2-16
CAT50-ER32-4"	50	4"	2-20
CAT50-ER40-4"	63	4"	3-26
CAT50-ER16UM-6"	32	6"	1-10
CAT50-ER20UM-6"	35	6"	1-13
CAT50-ER25-6"	42	6"	2-16
CAT50-ER32-6"	50	6"	2-20
CAT50-ER40-6"	63	6"	3-26
CAT50-ER25-8"	42	8"	2-16
CAT50-ER32-8"	50	8"	2-20
CAT50-ER40-8"	63	8"	3-26

ER Collet Chuck with Hex Nut DIN6499

ER 弹簧夹头刀柄

ANSI B5.50

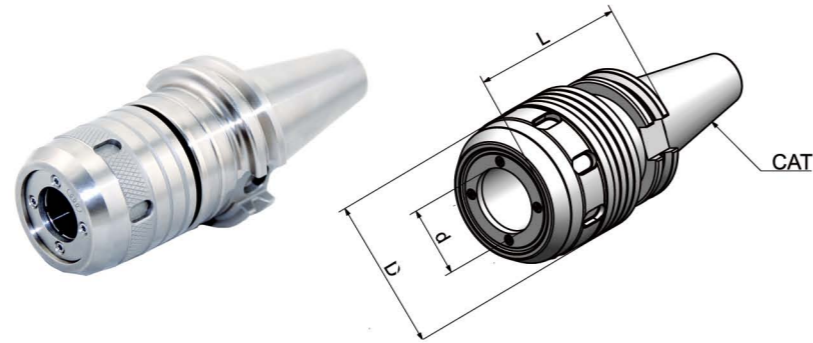
Runout: 0.003 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G2.5/20000 RPM;
 Balancing G6.3 can be made by request.
Usage: for clamping tools with straight shank in collets DIN 6499.



Size	D	L	Capacity
CAT40-ER11A-2.5"	19	2.5"	1-7
CAT40-ER16A-2.5	28	2.5"	1-10
CAT40-ER20A-2.5	34	2.5"	1-13
CAT40-ER11A-4"	19	4"	1-7
CAT40-ER16A-4"	28	4"	1-10
CAT40-ER20A-4"	34	4"	1-13
CAT40-ER11A-6"	19	6"	1-7
CAT40-ER16A-6"	28	6"	1-10
CAT40-ER20A-6"	34	6"	1-13
CAT50-ER16A-4"	28	4"	1-10
CAT50-ER20A-4"	34	4"	1-13
CAT50-ER16A-6"	28	6"	1-10
CAT50-ER20A-6"	34	6"	1-13

Power Milling Chuck 强力铣刀柄

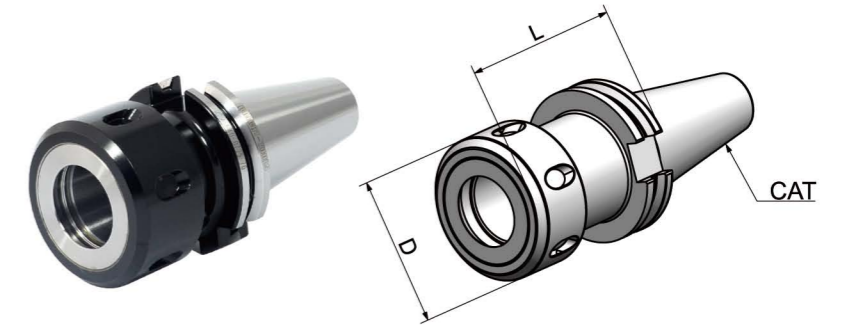
Runout: 0.01 mm
Cooling: AD
Balancing: Non-Balance;
 Balancing G6.3 can be made by request.
Usage: for clamping tools with straight collets.


ANSI B5.50

Size	d	D	L	Collet
CAT40-HC3/4"-4"	3/4"	50	4"	C3/4"
CAT40-HC1"-4"	1"	59	4"	C1"
CAT40-HC1-1/4"-4"	1.25"	70	4"	C1-1/4"
CAT50-HC3/4"-4"	3/4"	50	4"	C3/4"
CAT50-HC1"-4"	1"	59	4"	C1"
CAT50-HC1-1/4"-4"	1.25"	70	4"	C1-1/4"

OZ Collet Chuck DIN6391 OZ 夹头刀柄

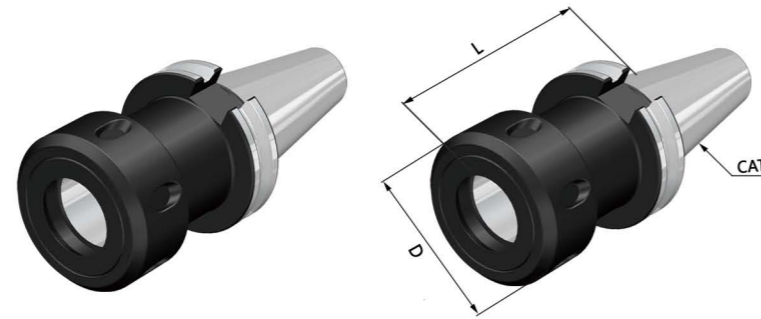
Runout: 0.005 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM.
Usage: for clamping tools with straight shank in collets DIN 6388.


ANSI B5.50

Size	D	L	L1	D	Capacity
CAT40-OZ25-2.25"	1/8"-1"	2.25"	1.18"	2.36"	2 – 25
CAT40-OZ25-4.00"	1/8"-1"	4.00"	1.18"	2.36"	2 – 25
CAT40-OZ32-2.25"	1/4"-1-1/4"	2.25"	1.30"	2.83"	3 – 32
CAT40-OZ32-4.00"	1/4"-1-1/4"	4.00"	1.30"	2.83"	3 – 32
CAT50-OZ25-2.25"	1/8"-1"	2.25"	1.18"	2.36"	2 – 25
CAT50-OZ25-4.00"	1/8"-1"	4.00"	1.18"	2.36"	2 – 25
CAT50-OZ32-2.25"	1/4"-1-1/4"	2.25"	1.30"	2.83"	3 – 32
CAT50-OZ32-4.00"	1/4"-1-1/4"	4.00"	1.30"	2.83"	3 – 32

TG Collet Chuck TG 超強力刀柄

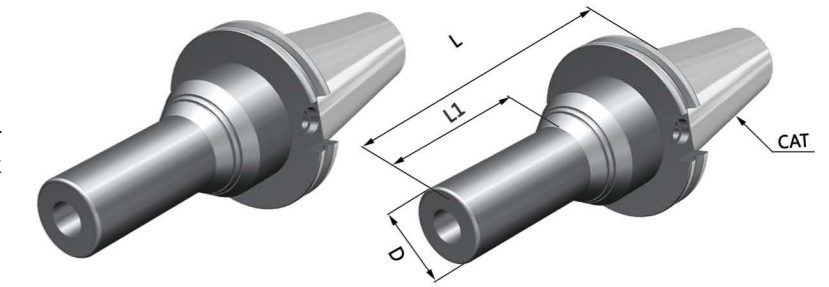
Runout: 0.005 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM.
Usage: for clamping tools with straight shank in TG collets.


ANSI B5.50

Size	D	L	Capacity
CAT40-TG75-2.75"	1.968"	2.75"	.094 - .75"
CAT40-TG100-3"	2.362"	3"	.094 - 1.0"
CAT40-TG100-4"	2.362"	4"	.094 - 1.0"
CAT40-TG100-6"	2.362"	6"	.094 - 1.0"
CAT50-TG100-3"	2.362"	3"	.094 - 1.0"
CAT50-TG100-4"	2.362"	4"	.094 - 1.0"
CAT50-TG100-6"	2.362"	6"	.094 - 1.0"
CAT50-TG100-8"	2.362"	8"	.094 - 1.0"

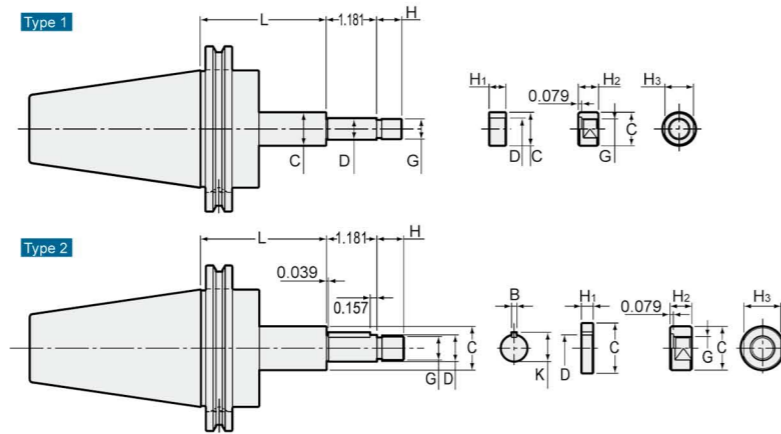
Precision Screw Collet Chuck PSC 后拉刀柄

Runout: 0.003 mm
Cooling: AD
Balancing: G6.3/15000 RPM
Advantage: worm and gear design for better rigidity; Use a hex key to lock easily.


ANSI B5.50

Size	D	L	L1	Capacity
CAT30-PSC14-92	30	92	11	2-14
CAT30-PSC14-142	30	142	61	2-14
CAT30-PSC20-92	40	92	20	2-20
CAT40-PSC14-63	30	63	11	2-14
CAT40-PSC14-112 D=24	24	112	38	2-14
CAT40-PSC14-112	30	112	61	2-14
CAT40-PSC14-149	30	149	85	2-14
CAT40-PSC20-63	40	63	20	2-20
CAT40-PSC20-112	40	112	69	2-20
CAT40-PSC20-149	40	149	103	2-20
CAT50-PSC20-62	40	62	18	2-20
CAT50-PSC20-112	40	112	48	2-20
CAT50-PSC20-149	40	149	104	2-20

Side Cutter Arbor 侧铣刀柄

ANSI B5.50


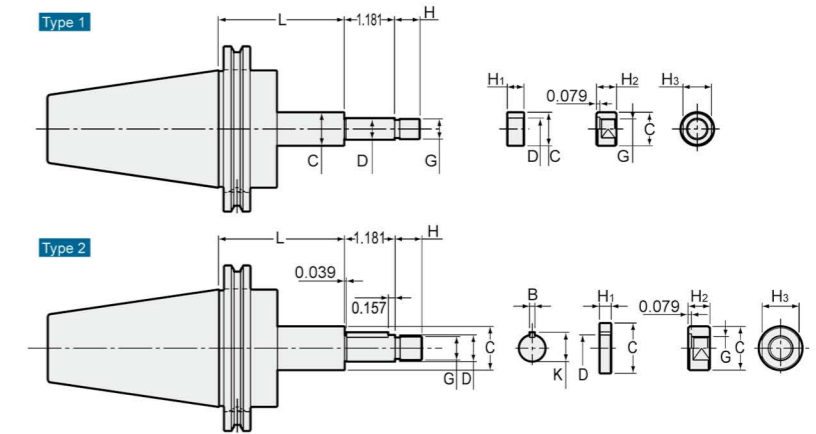
Size	Type	D	L	C	G(mm)	H	B	K	H2	H3
CAT40-SCA13-60	1	13	2.362	0.787	M12 x 1.25	0.591	-	-	0.472	0.669 (17mm)
CAT40-SCA13-90	1	13	3.543	0.787	M12 x 1.25	0.591	-	-	0.472	0.669 (17mm)
CAT40-SCA16-75	2	16	2.953	1.024	M14 x 1.5	0.63	0.157	0.677	0.512	0.866 (22mm)
CAT40-SCA16-105	2	16	4.134	1.024	M14 x 1.5	0.63	0.157	0.677	0.512	0.866 (22mm)
CAT40-SCA22-75	2	22	2.953	1.339	M20 x 1.5	0.827	0.236	0.929	0.709	1.181 (30mm)
CAT40-SCA22-120	2	22	4.724	1.339	M20 x 1.5	0.827	0.236	0.929	0.709	1.181 (30mm)
CAT40-SCA27-75	2	27	2.953	1.575	M24 x 2	0.984	0.276	1.142	0.827	1.26 (32mm)
CAT40-SCA27-120	2	27	4.724	1.575	M24 x 2	0.984	0.276	1.142	0.827	1.26 (32mm)
CAT40-SCA32-90	2	32	3.543	1.811	M30 x 2	1.181	0.315	1.339	1.024	1.614 (41mm)
CAT50-SCA13-75	1	13	2.953	0.787	M12 x 1.25	0.591	-	-	0.472	0.669 (17mm)
CAT50-SCA13-105	1	13	4.134	0.787	M12 x 1.25	0.591	-	-	0.472	0.669 (17mm)
CAT50-SCA16-90	2	16	3.543	1.024	M14 x 1.5	0.63	0.157	0.677	0.512	0.866 (22mm)
CAT50-SCA16-120	2	16	4.724	1.024	M14 x 1.5	0.63	0.157	0.677	0.512	0.866 (22mm)
CAT50-SCA22-90	2	22	3.543	1.339	M20 x 1.5	0.827	0.236	0.929	0.709	1.181 (30mm)
CAT50-SCA22-135	2	22	5.315	1.339	M20 x 1.5	0.827	0.236	0.929	0.709	1.181 (30mm)
CAT50-SCA27-90	2	27	3.543	1.575	M24 x 2	0.984	0.276	1.142	0.827	1.26 (32mm)
CAT50-SCA27-135	2	27	5.315	1.575	M24 x 2	0.984	0.276	1.142	0.827	1.26 (32mm)
CAT50-SCA32-90	2	32	3.543	1.811	M30 x 2	1.181	0.315	1.339	1.024	1.614 (41mm)
CAT50-SCA32-135	2	32	5.314	1.811	M30 x 2	1.181	0.315	1.339	1.024	1.614 (41mm)
CAT50-SCA40-90	2	40	3.543	2.165	M36 x 3	1.417	0.394	1.673	1.22	1.811 (46mm)
CAT50-SCA40-135	2	40	5.315	2.165	M36 x 3	1.417	0.394	1.673	1.22	1.811 (46mm)

Runout: 0.005 mm

Usage: for holding side cutter and metal saw.

Accessory: 3/5/7/8/10/12mm spacers one piece each.

Side Cutter Arbor 侧铣刀柄

ANSI B5.50


Size	Type	D	L	C	G(mm)	H	B	K	H2	H3
CAT40-SCA12.7-60	1	0.5	2.362	0.787	M12 x 1.25	0.591	-	-	0.472	0.669 (17mm)
CAT40-SCA12.7-90	1	0.5	3.543	0.787	M12 x 1.25	0.591	-	-	0.472	0.669 (17mm)
CAT40-SCA15.875-75	2	0.625	2.953	1.024	M14 x 1.5	0.63	0.125	0.686	0.512	0.866 (22mm)
CAT40-SCA15.875-105	2	0.625	4.134	1.024	M14 x 1.5	0.63	0.125	0.686	0.512	0.866 (22mm)
CAT40-SCA22.225-75	2	0.875	2.953	1.339	M20 x 1.5	0.827	0.125	0.938	0.709	1.181 (30mm)
CAT40-SCA22.225-120	2	0.875	4.724	1.339	M20 x 1.5	0.827	0.125	0.938	0.709	1.181 (30mm)
CAT40-SCA25.4-75	2	1	2.953	1.575	M24 x 2	0.984	0.25	1.094	0.827	1.26 (32mm)
CAT40-SCA25.4-120	2	1	4.724	1.575	M24 x 2	0.984	0.25	1.094	0.827	1.26 (32mm)
CAT40-SCA31.75-90	2	1.25	3.543	1.811	M30 x 2	1.181	0.312	1.375	1.024	1.614 (41mm)
CAT50-SCA12.7-75	1	0.5	2.953	0.787	M12 x 1.25	0.591	-	-	0.472	0.669 (17mm)
CAT50-SCA12.7-105	1	0.5	4.134	0.787	M12 x 1.25	0.591	-	-	0.472	0.669 (17mm)
CAT50-SCA15.875-90	2	0.625	3.543	1.024	M14 x 1.5	0.63	0.125	0.686	0.512	0.866 (22mm)
CAT50-SCA15.875-120	2	0.625	4.724	1.024	M14 x 1.5	0.63	0.125	0.686	0.512	0.866 (22mm)
CAT50-SCA22.225-90	2	0.875	3.543	1.339	M20 x 1.5	0.827	0.125	0.938	0.709	1.181 (30mm)
CAT50-SCA22.225-135	2	0.875	5.315	1.339	M20 x 1.5	0.827	0.125	0.938	0.709	1.181 (30mm)
CAT50-SCA25.4-90	2	1	3.543	1.575	M24 x 2	0.984	0.25	1.094	0.827	1.26 (32mm)
CAT50-SCA25.4-135	2	1	5.315	1.575	M24 x 2	0.984	0.25	1.094	0.827	1.26 (32mm)
CAT50-SCA31.75-90	2	1.25	3.543	1.811	M30 x 2	1.181	0.312	1.375	1.024	1.614 (41mm)
CAT50-SCA31.75-135	2	1.25	5.314	1.811	M30 x 2	1.181	0.312	1.375	1.024	1.614 (41mm)
CAT50-SCA38.1-90	2	1.5	3.543	2.165	M36 x 3	1.417	0.375	1.656	1.22	1.811 (46mm)
CAT50-SCA38.1-135	2	1.5	5.315	2.165	M36 x 3	1.417	0.375	1.656	1.22	1.811 (46mm)

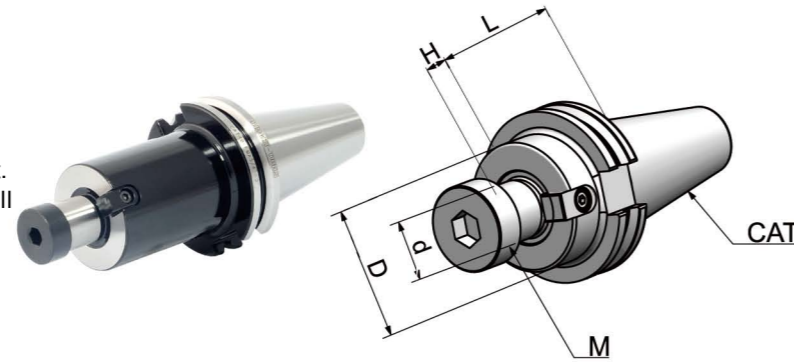
Runout: 0.005 mm

Usage: for holding side cutter and metal saw.

Accessory: 3/5/7/8/10/12mm spacers one piece each.

Face Mill Holder DIN6357 面铣刀柄

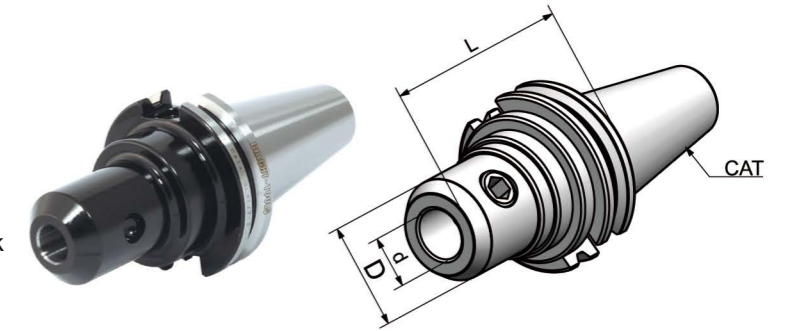
Runout: 0.005 mm
Cooling: Central Coolant;
 AD and AD/B can be made by request.
Balancing: G6.3/15000 RPM
 Balancing G2.5 can be made by request.
Usage: for holding tools like shell mill cutters.


ANSI B5.50

Size	d	D	L	H	M
CAT40-FMA1/2"-1.75"	1/2"	36.576	1.75"	13.97	1/4-28
CAT40-FMA3/4"-1.75"	3/4"	42.926	1.75"	17.45	3/8-24
CAT40-FMA3/4"-4"	3/4"	42.926	4"	17.45	3/8-24
CAT40-FMA1"-2"	1"	55.626	2"	17.45	1/2-20
CAT40-FMA1"-4"	1"	55.626	4"	17.45	1/2-20
CAT40-FMA1-1/4"-2"	1-1/4"	69.85	2"	17.45	5/8-18
CAT40-FMA1-1/4"-4"	1-1/4"	69.85	4"	17.45	5/8-18
CAT40-FMA1-1/2"-2"	1-1/2"	78	2"	23.83	3/4-16
CAT40-FMA1-1/2"-4"	1-1/2"	78	4"	23.83	3/4-16
CAT50-FMA3/4"-1.75"	3/4"	42.926	1.75"	17.45	3/8-24
CAT50-FMA3/4"-4"	3/4"	42.926	4"	17.45	3/8-24
CAT50-FMA3/4"-6"	3/4"	42.926	6"	17.45	3/8-24
CAT50-FMA3/4"-8"	3/4"	42.926	8"	17.45	3/8-24
CAT50-FMA1"-1.75"	1"	55.626	1.75"	17.45	1/2-20
CAT50-FMA1"-4"	1"	55.626	4"	17.45	1/2-20
CAT50-FMA1"-6"	1"	55.626	6"	17.45	1/2-20
CAT50-FMA1"-8"	1"	55.626	8"	17.45	1/2-20
CAT50-FMA1-1/4"-1.75"	1-1/4"	69.85	1.75"	17.45	5/8-18
CAT50-FMA1-1/4"-4"	1-1/4"	69.85	4"	17.45	5/8-18
CAT50-FMA1-1/4"-6"	1-1/4"	69.85	6"	17.45	5/8-18
CAT50-FMA1-1/4"-8"	1-1/4"	69.85	8"	17.45	5/8-18
CAT50-FMA1-1/2"-2"	1-1/2"	78	2"	23.83	3/4-16
CAT50-FMA1-1/2"-4"	1-1/2"	78	4"	23.83	3/4-16
CAT50-FMA1-1/2"-6"	1-1/2"	78	6"	23.83	3/4-16
CAT50-FMA1-1/2"-8"	1-1/2"	78	8"	23.83	3/4-16
CAT50-FMA2"-2"	2"	98	2"	23.83	1-14
CAT50-FMA2"-4"	2"	98	4"	23.83	1-14
CAT50-FMA2"-6"	2"	98	6"	23.83	1-14

End Mill Holder 侧固刀柄

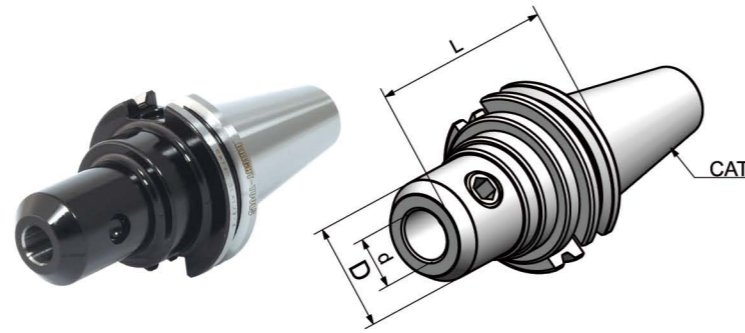
Runout: 0.005 mm
Bore Tolerance: H5
Cooling: AD;
 AD/B can be made by request.
Balancing: G2.5/20000 RPM;
 Balancing G6.3 can be made by request.
Usage: for clamping tools with straight shank and inclined flat.


ANSI B5.50

Size	d	D	L
CAT40-SLA1/4"-1.38	1/4"	19.81	1.38"
CAT40-SLA1/4"-4"	1/4"	19.81	4"
CAT40-SLA5/16"-1.38"	5/16"	22.225	1.38"
CAT40-SLA5/16"-4"	5/16"	22.225	4"
CAT40-SLA3/8"-1.38"	3/8"	25.4	1.38"
CAT40-SLA3/8"-4"	3/8"	25.4	4"
CAT40-SLA7/16"-2.5"	7/16"	28.575	2.5"
CAT40-SLA1/2"-1.75"	1/2"	31.75	1.75"
CAT40-SLA1/2"-4"	1/2"	31.75	4"
CAT40-SLA1/2"-6"	1/2"	31.75	6"
CAT40-SLA5/8"-1.75"	5/8"	38.1	1.75"
CAT40-SLA5/8"-3"	5/8"	38.1	3"
CAT40-SLA5/8"-5"	5/8"	38.1	5"
CAT40-SLA3/4"-1.75"	3/4"	44.45	1.75"
CAT40-SLA3/4"-3"	3/4"	44.45	3"
CAT40-SLA3/4"-5.5"	3/4"	44.45	5.5"
CAT40-SLA7/8"-3.5"	7/8"	47.625	3.5"
CAT40-SLA1"-2"	1"	50.8	2"
CAT40-SLA1"-4"	1"	50.8	4"
CAT40-SLA1"-6"	1"	50.8	6"
CAT40-SLA1-1/4"-2"	1-1/4"	63.5	2"
CAT40-SLA1-1/4"-4"	1-1/4"	63.5	4"
CAT40-SLA1-1/4"-6"	1-1/4"	63.5	6"
CAT40-SLA1-1/2"-4.5"	1-1/2"	63.5	4.5"

End Mill Holder 侧固刀柄

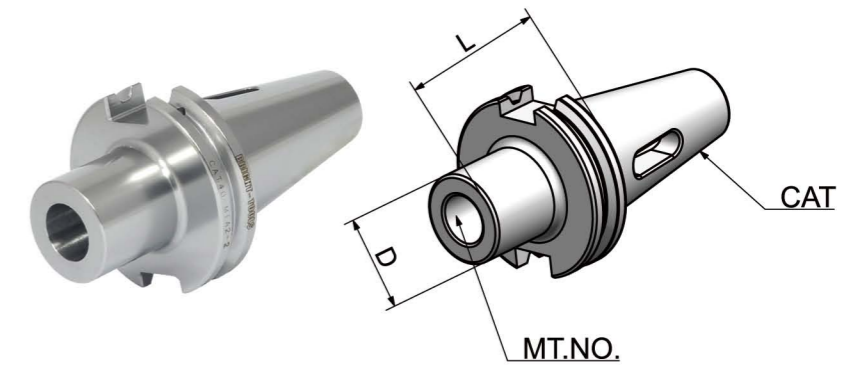
Runout: 0.005 mm
Bore Tolerance: H5
Cooling: AD;
 AD/B can be made by request.
Balancing: G2.5/20000 RPM;
 Balancing G6.3 can be made by request.
Usage: for clamping tools with straight shank and inclined flat.


ANSI B5.50

Size	d	D	L
CAT50-SLA1/4"-1.38"	1/4"	19.81	1.38"
CAT50-SLA1/4"-4"	1/4"	19.81	4"
CAT50-SLA1/4"-6"	1/4"	19.81	6"
CAT50-SLA5/16"-2.5"	5/16"	22.225	2.5"
CAT50-SLA5/16"-4"	5/16"	22.225	4"
CAT50-SLA3/8"-1.38"	3/8"	25.4	1.38"
CAT50-SLA3/8"-4"	3/8"	25.4	4"
CAT50-SLA3/8"-6"	3/8"	25.4	6"
CAT50-SLA7/16"-2.5"	7/16"	28.575	2.5"
CAT50-SLA1/2"-1.75"	1/2"	31.75	1.75"
CAT50-SLA1/2"-4"	1/2"	31.75	4"
CAT50-SLA1/2"-6"	1/2"	31.75	6"
CAT50-SLA5/8"-1.75"	5/8"	38.1	1.75"
CAT50-SLA5/8"-4"	5/8"	38.1	4"
CAT50-SLA5/8"-6"	5/8"	38.1	6"
CAT50-SLA3/4"-1.75"	3/4"	44.45	1.75"
CAT50-SLA3/4"-4"	3/4"	44.45	4"
CAT50-SLA3/4"-6"	3/4"	44.45	6"
CAT50-SLA7/8"-3.75"	7/8"	47.625	3.75"
CAT50-SLA1"-2"	1"	50.8	2"
CAT50-SLA1"-4"	1"	50.8	4"
CAT50-SLA1"-6"	1"	50.8	6"
CAT50-SLA1"-8"	1"	50.8	8"
CAT50-SLA1-1/4"-2"	1-1/4"	63.5	2"
CAT50-SLA1-1/4"-4"	1-1/4"	63.5	4"
CAT50-SLA1-1/4"-6"	1-1/4"	63.5	6"
CAT50-SLA1-1/4"-8"	1-1/4"	63.5	8"
CAT50-SLA1-1/2"- 2.25"	1-1/2"	63.5	2.25"
CAT50-SLA1-1/2"-4.5"	1-1/2"	63.5	4.5"
CAT50-SLA1-1/2"-8"	1-1/2"	63.5	8"
CAT50-SLA2"-5.37"	2"	95.25	5.37"

Morse Taper Adapter with Tang DIN6383 带扁尾莫式刀柄

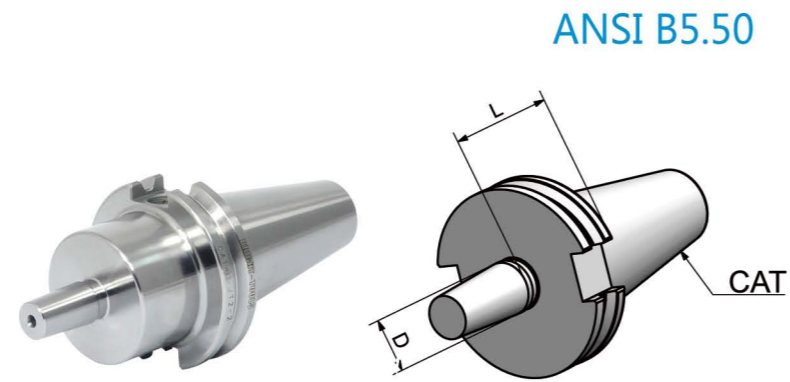
Runout: 0.005 mm
Cooling: AD
Balancing: G6.3/15000 RPM
 Balancing G2.5 can be made by request.
Usage: for holding tools with Morse taper shank and tang.


ANSI B5.50

Size	MT. NO.	D	L
CAT40-MTA1-1.75"	1	25.40	1.75"
CAT40-MTA2-2"	2	31.75	2"
CAT40-MTA3-3"	3	41.45	3"
CAT40-MTA4-4"	4	50.80	4"
CAT50-MTA2-2"	2	31.75	2"
CAT50-MTA3-2"	3	41.45	2"
CAT50-MTA4-3"	4	50.80	3"
CAT50-MTA5-4"	5	69.85	4"

Drill Chuck Adapter 钻接杆

Runout: 0.005 mm
Cooling: A
Balancing: G6.3/15000 RPM
Usage: for mounting drill chucks.



Size	D	L
CAT40-JT2-2"	14.199	2"
CAT40-JT3-2"	20.599	2"
CAT40-JT4-2"	28.55	2"
CAT40-JT6-2"	17.17	2"
CAT40-JT33-2"	15.85	2"
CAT50-JT2-2"	14.199	2"
CAT50-JT3-2"	20.599	2"
CAT50-JT4-2"	28.55	2"
CAT50-JT6-2"	17.17	2"
CAT50-JT33-2"	15.85	2"

APU Drill Chuck Holder APU 钻夹头刀柄

Runout: 0.08 mm
Cooling: A; Central cooling is unavailable.
Usage: for clamping tools with straight shank.

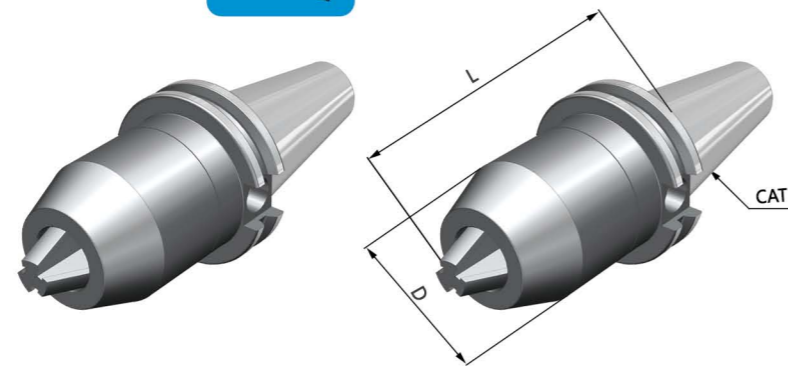


Size	D	L		Capacity
CAT30-AP08-85	38	85	90	1-8
CAT30-APU13-125	48	125	135	1-13
CAT30-APU16-135	53	135	145.6	3-16
CAT40-APU08-85	38	85	90	1-8
CAT40-APU13-100	48	100	110	1-13
CAT40-APU16-110	53	110	120.6	3-16
CAT50-APU8-75	38	75	80	1-8
CAT50-APU13-100	48	100	110	1-13
CAT50-APU16-110	53	110	120.6	3-16

Precision Drill Chuck Holder 精密钻夹头刀柄

NEW!
ANSI B5.50
Advantages:

- 1) Runout: 0.03 mm;
- 2) Internal cooling;
- 3) Worm and gear design for better clamping force;
- 4) Use a hex key to lock easily.



Size	D	L	Capacity
CAT30-CPU10-69	38	69	0.5-10
CAT40-CPU10-69	38	69	0.5-10
CAT40-CPU16-80	50	80	1-16
CAT50-CPU16-80	50	80	1-16

Quick Change Tapping Chuck with Length Compensation 弹性快换攻丝刀柄

ANSI B5.50

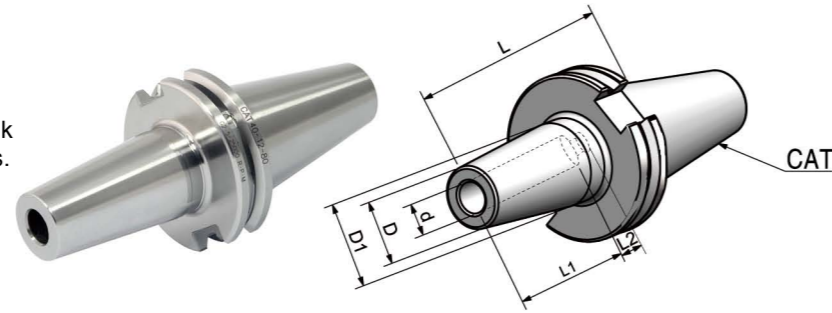
Usage: for tapping preferably. Axial length compensation on tension and pressure.



Size	Collet Size	D	d	L	T	C
CAT30-TC312-70	1	36	19	70	7.5	7.5
CAT30-TC820-99	2	54	31	99	12.5	12.5
CAT40-TC312-65	1	36	19	65	7.5	7.5
CAT40-TC820-93	2	54	31	93	12.5	12.5
CAT40-TC1433-156	3	78	48	156	22	22
CAT50-TC312-100	1	36	19	100	7.5	7.5
CAT50-TC820-100	2	54	31	100	12.5	12.5
CAT50-TC1433-142	3	78	48	142	22	22

Shrink Fit Chuck 热缩刀柄

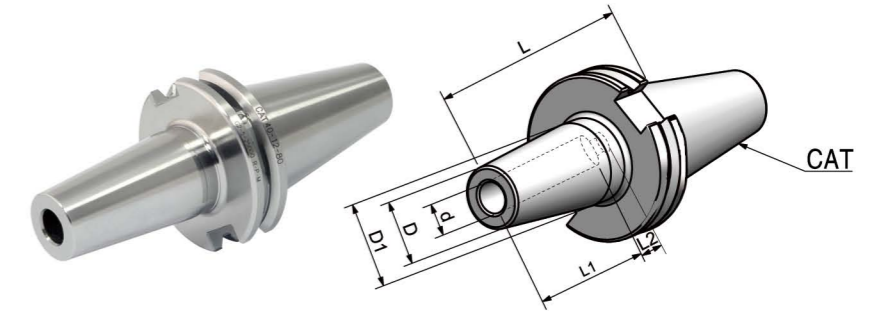
Runout: 0.003 mm
Blancing: G2.5/25000 RPM
Usage: Working with induction shrink machine for mounting straight shank tools.



Size	d	L	D	D1	L1	L2
CAT40-SF3-80	3	80	15	20	10	-
CAT40-SF4-80	4	80	15	20	20	5
CAT40-SF5-80	5	80	15	20	20	5
CAT40-SF6-80	6	80	20	27	36	10
CAT40-SF8-80	8	80	20	27	36	10
CAT40-SF10-80	10	80	24	32	41	10
CAT40-SF12-80	12	80	24	32	47	10
CAT40-SF14-80	14	80	27	34	47	10
CAT40-SF16-80	16	80	27	34	50	10
CAT40-SF18-80	18	80	33	42	50	10
CAT40-SF20-80	20	80	33	42	52	10
CAT40-SF25-100	25	100	44	53	58	10
CAT40-SF32-100	32	100	44	53	62	10
CAT50-SF3-80	3	80	15	20	10	-
CAT50-SF4-80	4	80	15	20	20	5
CAT50-SF5-80	5	80	15	20	20	5
CAT50-SF6-80	6	80	20	27	36	10
CAT50-SF8-80	8	80	20	27	36	10
CAT50-SF10-80	10	80	24	32	41	10
CAT50-SF12-80	12	80	24	32	47	10
CAT50-SF14-80	14	80	27	34	47	10
CAT50-SF16-80	16	80	27	34	50	10
CAT50-SF18-80	18	80	33	42	50	10
CAT50-SF20-80	20	80	33	42	52	10
CAT50-SF25-100	25	100	44	53	58	10
CAT50-SF32-100	32	100	44	53	62	10

Shrink Fit Chuck 热缩刀柄

Runout: 0.003 mm
Blancing: G2.5/25000 RPM
Usage: Working with induction shrink machine for mounting straight shank tools.



Size	d	L	D	D1	L1	L2
CAT40-SF1/8-3.15"	1/8	3.15"	0.39"	0.75"	0.39"	-
CAT40-SF3/16-3.15"	3/16	3.15"	0.39"	0.75"	0.79"	0.20"
CAT40-SF1/4-3.15"	1/4	3.15"	0.83"	1.06"	1.42"	0.39"
CAT40-SF5/16-3.15"	5/16	3.15"	0.83"	1.06"	1.42"	0.39"
CAT40-SF3/8-3.15"	3/8	3.15"	0.94"	1.26"	1.61"	0.39"
CAT40-SF1/2-3.15"	1/2	3.15"	0.94"	1.26"	1.85"	0.39"
CAT40-SF5/8-3.15"	5/8	3.15"	1.06"	1.34"	1.97"	0.39"
CAT40-SF3/4-3.15"	3/4	3.15"	1.3"	1.65"	2.05"	0.39"
CAT40-SF1-3.94"	1	3.94"	1.73"	2.09"	2.28"	0.39"
CAT40-SF1-1/4-3.94"	1-1/4	3.94"	1.73"	2.09"	2.44"	0.39"
CAT50-SF1/4-3.15"	1/4	3.15"	0.83"	1.06"	1.42"	-
CAT50-SF5/16-3.15"	5/16	3.15"	0.83"	1.06"	1.42"	0.39"
CAT50-SF3/8-3.15"	3/8	3.15"	0.94"	1.26"	1.61"	0.39"
CAT50-SF1/2-3.15"	1/2	3.15"	0.94"	1.26"	1.85"	0.39"
CAT50-SF5/8-3.15"	5/8	3.15"	1.06"	1.34"	1.97"	0.39"
CAT50-SF3/4-3.15"	3/4	3.15"	1.3"	1.65"	2.05"	0.39"
CAT50-SF1-3.94"	1	3.94"	1.73"	2.09"	2.28"	0.39"
CAT50-SF1-1/4-3.94"	1-1/4	3.94"	1.73"	2.09"	2.44"	0.39"

Boring Bar Blank

基础柄

ANSI B5.50

Usage: used for special tools; taper and flange are hardened and grinded, soft blank side for later processing.



Size	D	L
CAT40-2"-6"	2"	6"
CAT40-2"-10"	2"	10"
CAT40-2.5"-8"	2.5"	8"
CAT40-4"-10"	4"	10"
CAT50-2"-6"	2"	6"
CAT50-4"-6"	4"	6"
CAT50-4"-10"	4"	10"
CAT50-6"-10"	6"	10"

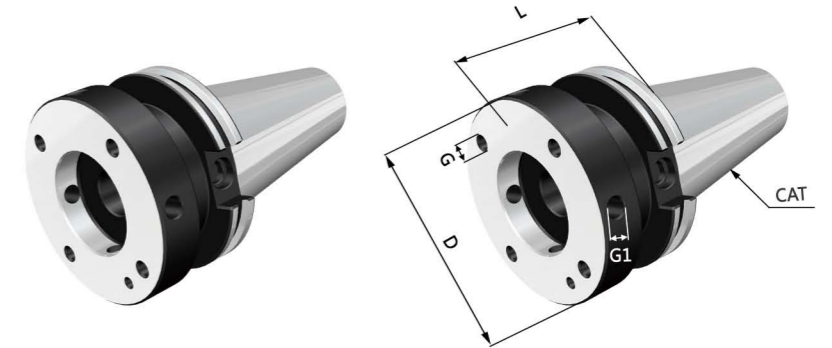
Other sizes can be made by request.

Runout Adjustable Flange Adapter

可调节精度法兰刀柄

ANSI B5.50

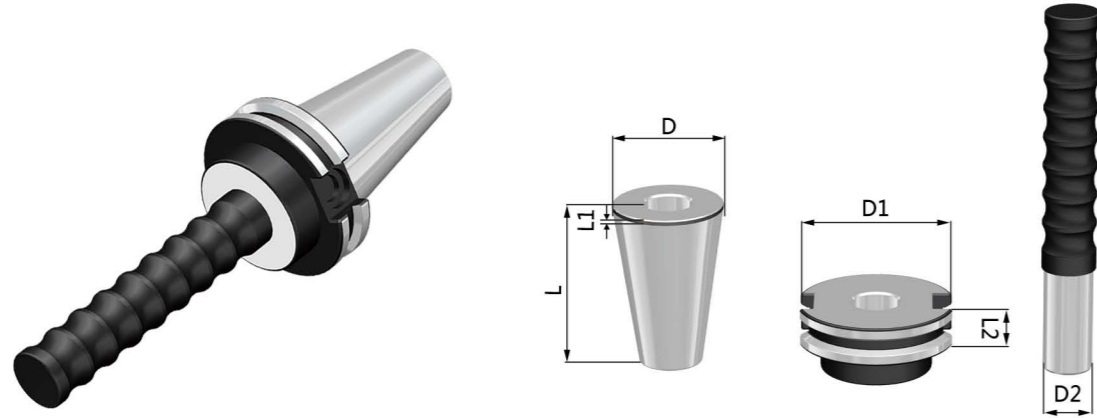
Runout: can be adjusted to 0.002mm
Surface Flatness: 0.002 mm
Surface Runout: 0.002 mm
Balancing: G6.3/15000 RPM
Usage: flange connection, use screws to adjust tool holder runout.



CAT	CAT	D	L	G	G1
CAT30-MOD060-050	30	60	50	M5	M8x1
CAT30-MOD070-050	30	70	50	M6	M8x1
CAT40-MOD060-050	40	60	50	M5	M8x1
CAT40-MOD070-050	40	70	50	M6	M8x1
CAT40-MOD080-055	40	80	55	M6	M8x1
CAT40-MOD100-060	40	100	60	M8	M10x1
CAT45-MOD060-050	45	60	50	M5	M8x1
CAT45-MOD070-050	45	70	50	M6	M8x1
CAT45-MOD080-055	45	80	55	M6	M8x1
CAT45-MOD100-060	45	100	60	M8	M10x1
CAT45-MOD117-060	45	117	60	M8	M10x1
CAT50-MOD060-050	50	60	50	M5	M8x1
CAT50-MOD070-050	50	70	50	M6	M8x1
CAT50-MOD080-050	50	80	50	M6	M8x1
CAT50-MOD100-060	50	100	60	M8	M10x1
CAT50-MOD117-060	50	117	60	M8	M10x1
CAT50-MOD140-060	50	140	60	M10	M10x1

Alignment Tool for ATC Arm
调整机械手用组合模具

ANSI B5.50



Size	D	D1	D2	L	L1	L2	L3	M
CAT30-ATC-18D	31.75	46	18	50.8	3.175	20	15.875	M12
CAT40-ATC-20D	44.45	63.5	20	71.43	3.175	25	15.875	M12
CAT50-ATC-28D	69.85	98.43	28	104.78	3.175	35	15.875	M16

Usage:

- 1) Put the Taper to the machine Spindle
- 2) Install flange to the ATC arm
- 3) Insert Pin into the flange
- 4) Adjust ATC arm and make sure the pin front part into the flange completely.

GOST



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*GOST 25827-93
GOST Tool Holders*

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Add: Chongde 5th Avenue, Dezhou, Shandong, China

Tel: +86-534-8127522/33/88; +86-534-2356966

Web: <http://www.bright-tools.com>

Email: sales@bright-tools.com

山东金杰机械有限公司
SHANDONG JINJIE MACHINERY CO., LTD

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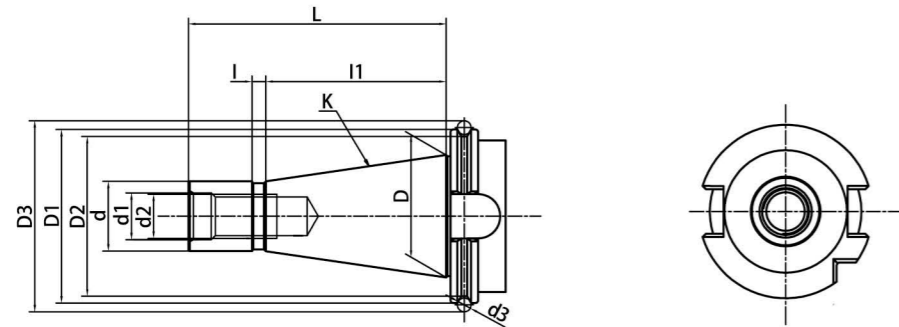
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GOST Taper Standard GOST 锥柄标准

GOST 25827-93

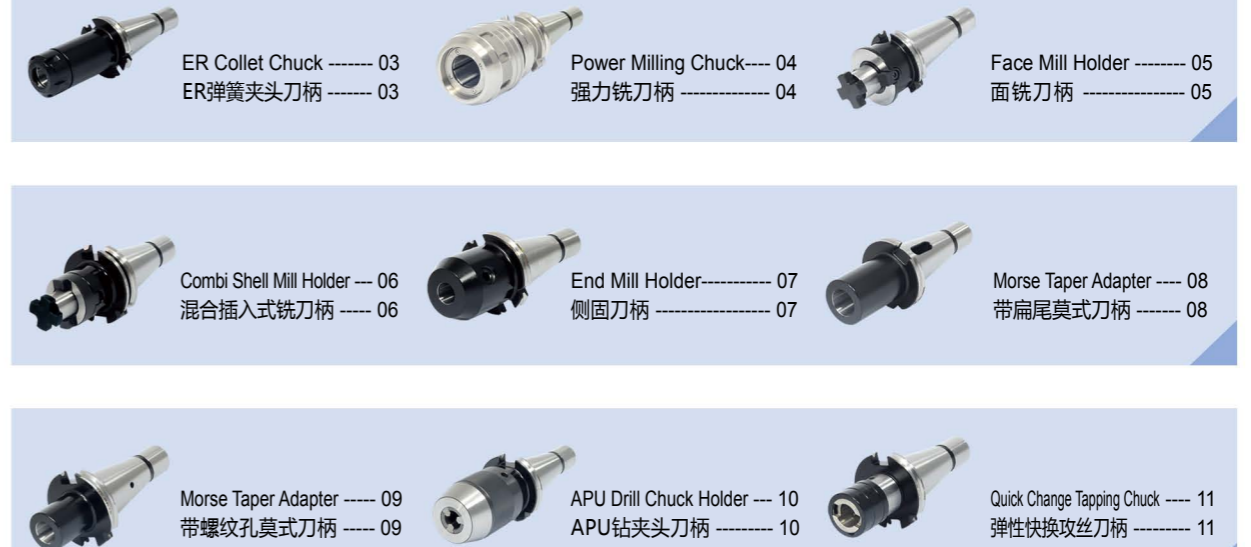


Size	D	D1	D2	D3	D4	d	d1	d2	d3	L	I	I1
ISO30	31.75	50	46	55.070	44	17.4	13	M12	4	68.4	3	48.4
ISO40	44.45	63	58	69.340	55	25.3	17	M16	5	93.4	5	65.4
ISO50	69.85	100	94	107.610	85	39.6	25	M24	6	126.8	8	101.8

Taper standard: GOST 25827-93
Material: Alloyed case hardened steel
Surface Treatment: Blackening
Taper tolerance: <AT3
Hardness: HRC 58-62
Carbon depth: 0.8±0.2mm
Surface Roughness: Ra<0.005mm



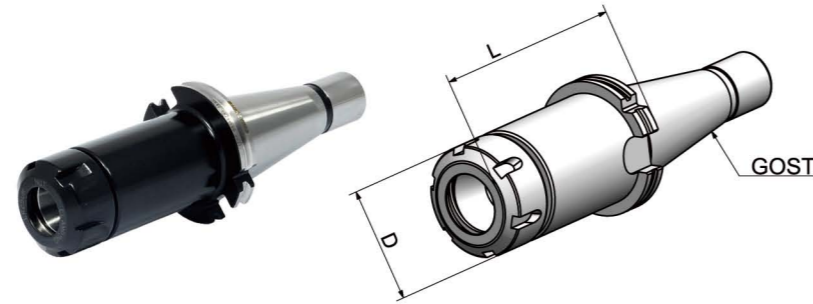
GOST



ER Collet Chuck DIN6499

ER 弹簧夹头刀柄

Runout: 0.003 mm
Cooling: AD
Usage: for clamping tools with straight shank in collets DIN 6499.



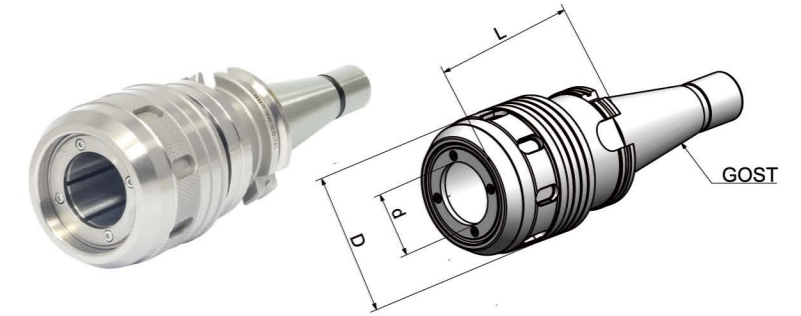
Size	D	L	Capacity
ISO40-ER16-70	28	70	1-10
ISO40-ER25-70	42	70	2-16
ISO40-ER32-70	50	70	2-20
ISO40-ER40-80	63	80	3-26
ISO40-ER16-100	28	100	1-10
ISO40-ER25-100	42	100	2-16
ISO40-ER32-100	50	100	2-20
ISO40-ER40-100	63	100	3-26
ISO40-ER16-160	28	160	1-10
ISO40-ER25-160	42	160	2-16
ISO40-ER32-160	50	160	2-20
ISO40-ER40-160	63	160	3-26
ISO50-ER16-80	28	80	1-10
ISO50-ER25-80	42	80	2-16
ISO50-ER32-70	50	70	2-20
ISO50-ER40-80	63	80	3-26
ISO50-ER16-100	28	100	1-10
ISO50-ER25-100	42	100	2-16
ISO50-ER32-100	50	100	2-20
ISO50-ER40-100	63	100	3-26
ISO50-ER16-160	28	150	1-10
ISO50-ER25-160	42	160	2-16
ISO50-ER32-160	50	160	2-20
ISO50-ER40-160	63	160	3-26

GOST 25827-93

Power Milling Chuck

强力铣刀柄

Runout: 0.01 mm
Cooling: AD
Usage: for clamping tools with straight collets or clamping same diameter cutting tools directly.



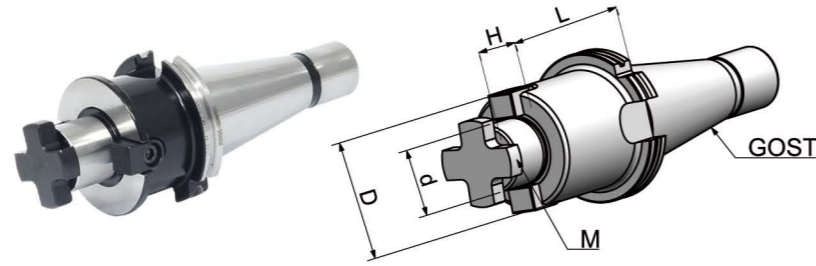
Size	d	D	L	Capacity
ISO40-HC20-85	20	50	85	3-16; 20
ISO40-HC25-100	25	59	100	3-20; 25
ISO40-HC32-105	32	70	105	3-25; 32
ISO50-HC20-105	20	50	105	3-16; 20
ISO50-HC25-105	25	59	105	3-20; 25
ISO50-HC32-110	32	70	110	3-25; 32
ISO50-HC42-110	42	99	110	3-32; 42

GOST 25827-93

Face Mill Holder DIN6357

面铣刀柄

Runout: 0.005 mm
Cooling: Central Coolant
Usage: for holding tools like shell mill cutters.



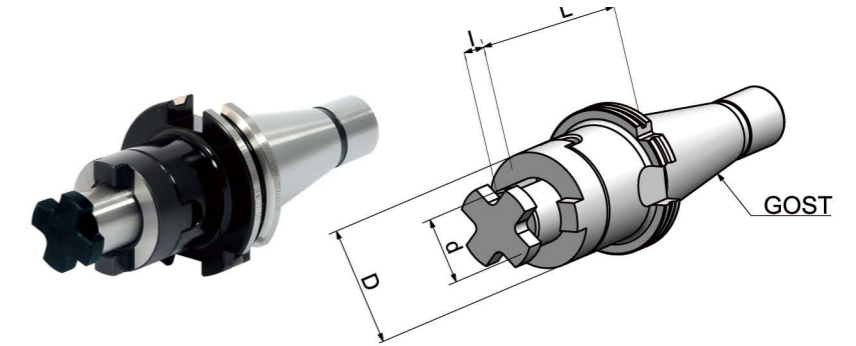
GOST 25827-93

Size	d	D	L	H	M
ISO40-FMB16-45	16	38	45	17	M8
ISO40-FMB22-45	22	48	45	19	M10
ISO40-FMB27-40	27	58	40	21	M12
ISO40-FMB32-55	32	78	55	24	M16
ISO40-FMB40-55	40	88	55	27	M20
ISO50-FMB16-40	16	38	40	17	M8
ISO50-FMB22-45	22	48	45	19	M10
ISO50-FMB27-45	27	58	45	21	M12
ISO50-FMB32-50	32	78	50	24	M16
ISO50-FMB40-55	40	88	55	27	M20

Combi Shell Mill Holder DIN6358

混合插入式铣刀柄

Runout: 0.005 mm
Cooling: Central Coolant
Usage: for holding tools like shell mill cutters and angular milling cutters.



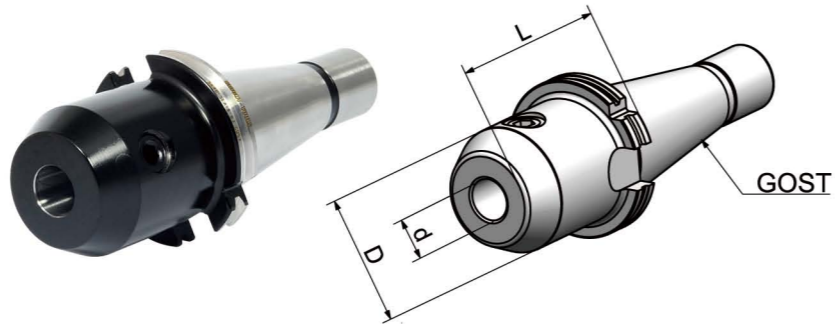
GOST 25827-93

Size	d	D	I	L
ISO40-SEMC16-55	16	32	17	55
ISO40-SEMC22-55	22	40	19	55
ISO40-SEMC27-55	27	48	21	55
ISO40-SEMC32-60	32	58	24	60
ISO40-SEMC40-60	40	70	27	60
ISO50-SEMC16-55	16	32	17	55
ISO50-SEMC22-55	22	40	19	55
ISO50-SEMC27-55	27	48	21	55
ISO50-SEMC32-55	32	58	24	55
ISO50-SEMC40-55	40	70	27	55

End Mill Holder DIN6359/1835B (Weldon)

侧固刀柄

Runout: 0.005 mm
Bore Tolerance: H5
Cooling: AD
Usage: for clamping tools with straight shank and inclined flat DIN1835-B.



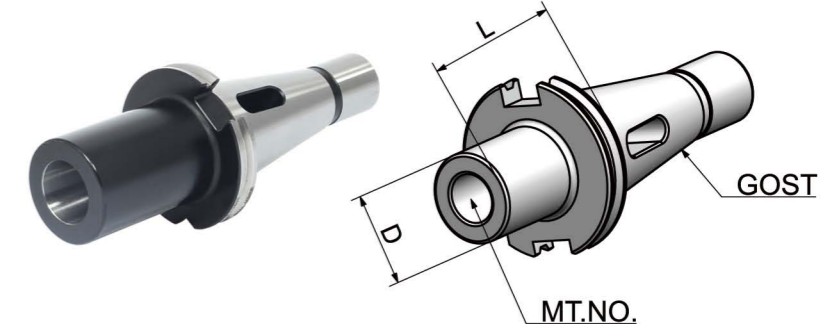
Size	d	D	L
ISO40-SLA6-50	6	25	50
ISO40-SLA8-50	8	28	50
ISO40-SLA10-50	10	35	50
ISO40-SLA12-50	12	42	50
ISO40-SLA14-50	14	44	50
ISO40-SLA16-63	16	48	63
ISO40-SLA18-63	18	50	63
ISO40-SLA20-63	20	52	63
ISO40-SLA25-100	25	65	100
ISO40-SLA32-100	32	72	100
ISO40-SLA40-120	40	80	120
ISO50-SLA6-63	6	25	63
ISO50-SLA8-63	8	28	63
ISO50-SLA10-63	10	35	63
ISO50-SLA12-63	12	42	63
ISO50-SLA14-63	14	44	63
ISO50-SLA16-63	16	48	63
ISO50-SLA18-63	18	50	63
ISO50-SLA20-63	20	52	63
ISO50-SLA25-80	25	65	80
ISO50-SLA32-100	32	72	100
ISO50-SLA40-100	40	80	100

GOST 25827-93

Morse Taper Adapter with Tang DIN6383

带扁尾莫式刀柄

Runout: 0.005 mm
Cooling: AD
Usage: for holding tools with Morse taper shank and tang according to DIN 228-1 form B.

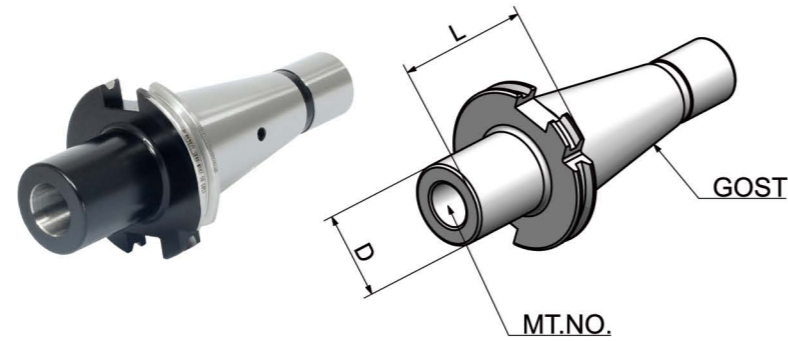


Size	MT. NO.	D	L
ISO40-MTA1-50	1	25	50
ISO40-MTA2-50	2	32	50
ISO40-MTA3-70	3	40	70
ISO40-MTA4-95	4	48	95
ISO50-MTA1-45	1	25	45
ISO50-MTA2-60	2	32	60
ISO50-MTA3-65	3	40	65
ISO50-MTA4-95	4	48	95
ISO50-MTA5-105	5	63	105

GOST 25827-93

Morse Taper Adapter with Drawbar DIN6364 GOST 25827-93 带螺纹孔莫式刀柄

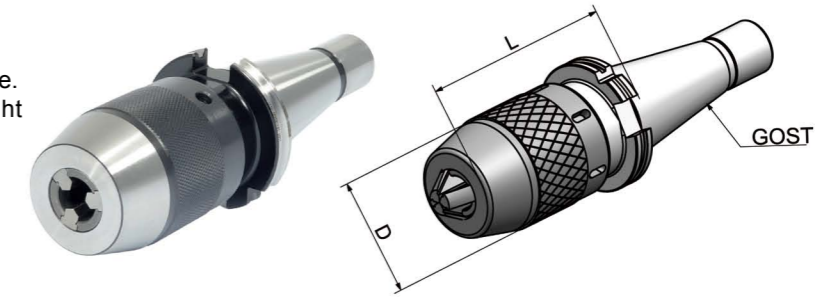
Runout: 0.005 mm
Cooling: A
Usage: for clamping tools with Morse taper shank and thread according to DIN 228-1 form A.



Size	MT. NO.	D	L
ISO40-MTB1-50	1	28	50
ISO40-MTB2-50	2	32	50
ISO40-MTB3-70	3	40	70
ISO40-MTB4-95	4	48	95
ISO50-MTB1-45	1	28	45
ISO50-MTB2-60	2	32	60
ISO50-MTB3-65	3	40	65
ISO50-MTB4-95	4	48	95
ISO50-MTB5-105	5	63	105

APU Drill Chuck Holder GOST 25827-93 APU 钻夹头刀柄

Runout: 0.08 mm
Cooling: A; Central cooling is unavailable.
Usage: for clamping tools with straight shank.

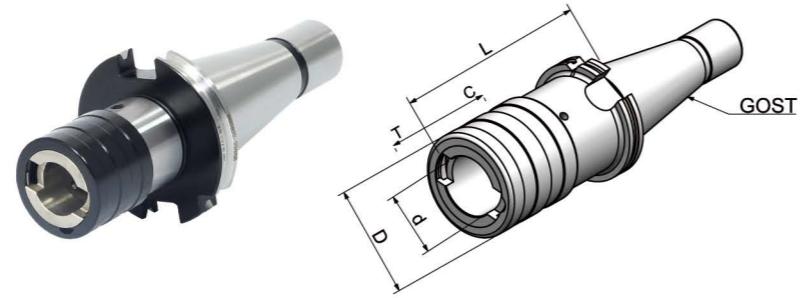


Size	D	L	l	Capacity
ISO40-APU08-75	38	75	85	1-8
ISO40-APU13-100	48	100	110	1-13
ISO40-APU16-110	53	110	120	3-16
ISO50-APU08-75	38	75	85	1-8
ISO50-APU13-100	48	100	110	1-13
ISO50-APU16-105	53	105	115	3-16

Quick Change Tapping Chuck with Length Compensation 弹性快换攻丝刀柄

GOST 25827-93

Usage: for tapping preferably. Axial length compensation on tension and pressure.



Size	Collet Size	D	d	L	T	C
ISO40-TC312-59	1	36	19	59	7.5	7.5
ISO40-TC820-97	2	53	31	97	12.5	12.5
ISO40-TC1433-156	3	78	48	156	22	22
ISO50-TC312-63	1	38	19	63	7.5	7.5
ISO50-TC820-97	2	54	31	97	12.5	12.5
ISO50-TC1433-140	3	78	48	140	22	22

HSK



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HSK

DIN 69893
HSK Tool Holders

BRIGHT-TOOLS

Add: Chongde 5th Avenue, Dezhou, Shandong, China

Tel: +86-534-8127522/33/88; +86-534-2356966

Web: <http://www.bright-tools.com>

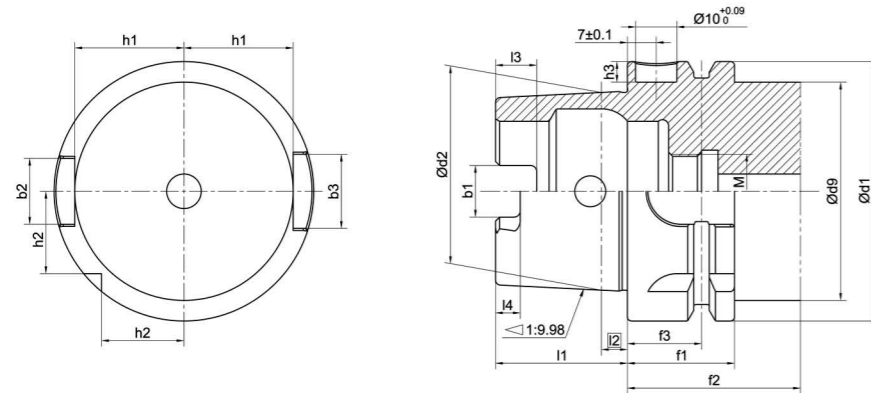
Email: sales@bright-tools.com

山东金杰机械有限公司
SHANDONG JINJIE MACHINERY CO., LTD

HSK-A Taper Standard

HSK-A 锥柄标准

DIN 69893
ISO 12164



Size	d1	d2	d9	l1	l2	l3	l4	f1	f2	f3	h1	h2	h3	b1	b2	b3
HSK25A	25	19.006	20	13	2.5	4	2	10	20	4.5	10	7.5	-	6.05	6	7
HSK32A	32	24.007	26	16	3.2	5	3	20	35	16	13	9.5	5.4	7.05	7	9
HSK40A	40	30.007	34	20	4	6	3.5	20	35	16	17	12	5.2	8.05	9	11
HSK50A	50	38.009	42	25	5	7.5	4.5	26	42	18	21	15.5	5.1	10.54	12	14
HSK63A	63	48.010	53	32	6.3	10	6	26	42	18	26.5	20	5.0	12.54	16	18
HSK80A	80	60.012	68	40	8	12	8	26	42	18	34	25	4.9	16.04	18	20
HSK100A	100	75.013	88	50	10	15	10	29	45	20	44	31.5	4.9	20.02	20	22

Taper standard: DIN 69893; ISO 12164
Material: Alloyed case hardened steel
Surface Treatment: Blackening and Bright
Taper tolerance: <AT3
Hardness: HRC 58-62
Carbon depth: 0.8±0.2mm
Surface Roughness: Ra<0.005mm
Balancing: G6.3/15000; G2.5/25000



HSK-A

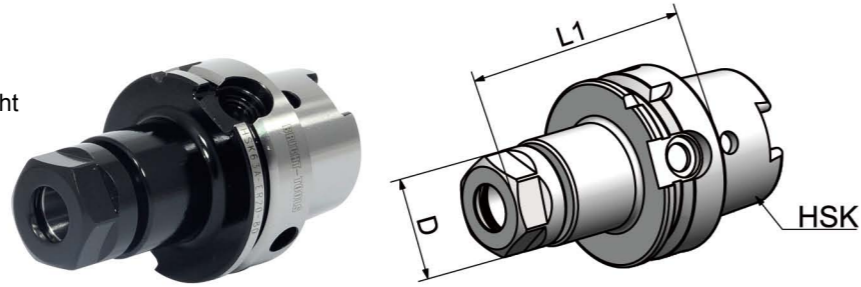
 ER Collet Chuck ----- 03 ER 弹簧夹头刀柄 ----- 03	 Power Milling Chuck -- 06 强力铣刀柄 ----- 06	 OZ Collet Chuck ----- 07 OZ 夹头刀柄 ----- 07
 TG Collet Chuck ----- 08 TG 超强力刀柄 ----- 08	 Precision Screw Collet Chuck -- 09 PSC 后拉刀柄 ----- 09	 Side Cutter Arbor ----- 10 侧铣刀柄 ----- 10
 Face Mill Holder ----- 12 面铣刀柄 ----- 12	 Combi Shell Mill Holder -- 13 混合插入式铣刀柄 ----- 13	 End Mill Holder ----- 15 侧固刀柄 ----- 15
 Morse Taper Adapter ---- 19 带扁尾莫式刀柄 ----- 19	 Morse Taper Adapter ---- 20 带螺孔莫式刀柄 ----- 20	 APU Drill Chuck Holder --21 APU 钻夹头刀柄 ----- 21
 Precision Drill Chuck Holder --- 22 精密钻夹头刀柄 ----- 22	 Quick Change Tapping Chuck --- 23 弹性快换攻丝刀柄 ----- 23	 Shrink Fit Chuck ----- 24 热缩刀柄 ----- 24
 Screw-in Milling Cutter Holder - 27 SOM 锁牙刀柄 ----- 27	 Boring Bar Blank ----- 29 基础柄 ----- 29	 Runout Adjustable Flange Adapter - 30 可调节精度法兰刀柄 ---- 30
 Alignment Tool for ATC Arm - 31 调整机械手用组合模具 -- 31		

ER Collet Chuck DIN6499

ER 弹簧夹头刀柄

ISO 12164

Runout: 0.003 mm
Balancing: G2.5/25000 RPM
Usage: for clamping tools with straight shank in collets DIN 6499.



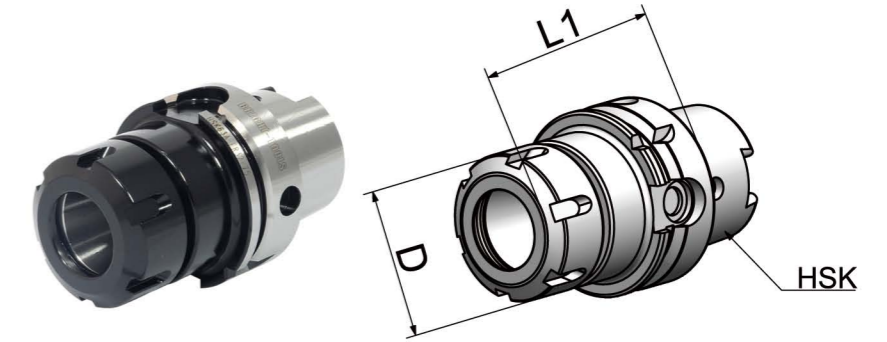
Size	D	L1	Capacity
HSK32A-ER16-80	28	80	1-10
HSK32A-ER25-80	42	80	2-16
HSK32A-ER32-50	50	50	3-20
HSK40A-ER16-80	28	80	1-10
HSK40A-ER25-80	42	80	2-16
HSK40A-ER32-80	50	80	3-20
HSK50A-ER16-80	28	80	1-10
HSK50A-ER20-80	34	80	1-13
HSK50A-ER25-80	42	80	2-16
HSK50A-ER32-100	50	100	3-20
HSK63A-ER16-75	28	75	1-10
HSK63A-ER20-75	34	75	1-13
HSK63A-ER25-75	42	75	2-16
HSK63A-ER32-75	50	75	3-20
HSK63A-ER40-90	63	90	4-26
HSK63A-ER16-100	28	100	1-10
HSK63A-ER20-100	34	100	1-13
HSK63A-ER25-100	42	100	2-16
HSK63A-ER32-100	50	100	3-20
HSK63A-ER40-120	63	120	4-26
HSK63A-ER16-160	28	160	1-10
HSK63A-ER25-160	42	160	2-16
HSK32A-ER32-160	50	160	3-20
HSK63A-ER40-160	63	160	4-26

ER Collet Chuck DIN6499

ER 弹簧夹头刀柄

ISO 12164

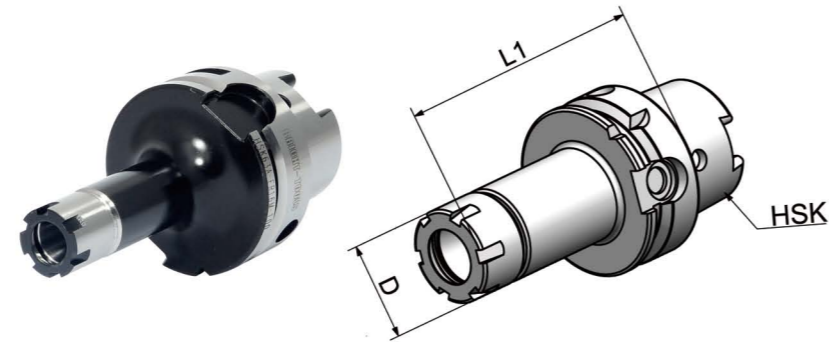
Runout: 0.003 mm
Balancing: G2.5/25000 RPM
Usage: for clamping tools with straight shank in collets DIN 6499.



Size	D	L1	Capacity
HSK80A-ER16-100	28	100	1-10
HSK80A-ER25-100	42	100	2-16
HSK80A-ER32-100	50	100	3-20
HSK80A-ER40-120	63	120	4-26
HSK100A-ER16-100	28	100	1-10
HSK100A-ER20-100	34	100	1-13
HSK100A-ER25-100	42	100	2-16
HSK100A-ER32-100	50	100	3-20
HSK100A-ER40-120	63	120	4-26
HSK100A-ER16-160	28	160	1-10
HSK100A-ER20-160	34	160	1-13
HSK100A-ER25-160	42	160	2-16
HSK100A-ER32-160	50	160	3-20
HSK100A-ER40-160	63	160	4-26

ER Collet Chuck with Mini Nut DIN6499 ER 弹簧夹头刀柄

Runout: 0.003 mm
Balancing: G2.5/25000 RPM
Usage: for clamping tools with straight shank in collets DIN 6499.

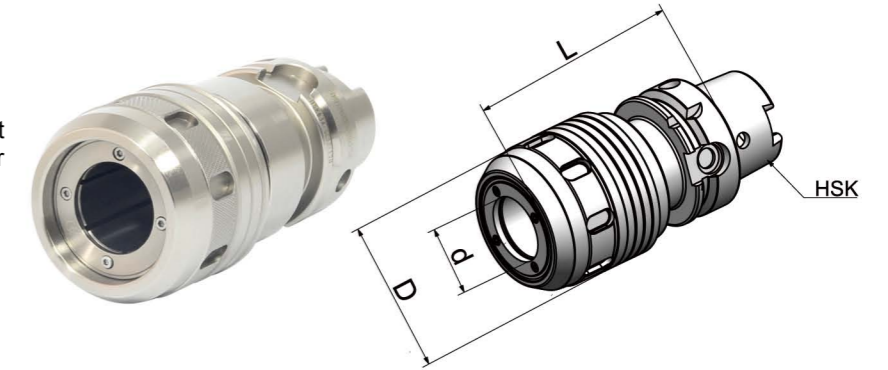


DIN 69893
ISO 12164

Size	D	L1	Capacity
HSK32A-ER11M-50	16	50	1-7
HSK32A-ER16M-50	22	50	1-10
HSK40A-ER11M-40	16	40	1-7
HSK40A-ER16M-80	22	80	1-10
HSK50A-ER11M-60	16	60	1-7
HSK50A-ER16M-60	22	60	1-10
HSK63A-ER11M-100	16	100	1-7
HSK63A-ER16M-100	22	100	1-10
HSK63A-ER25M-100	35	100	2-16
HSK63A-ER11M-160	16	160	1-7
HSK63A-ER16M-160	22	160	1-10
HSK63A-ER25M-160	35	160	2-16
HSK100A-ER16M-100	22	100	1-10
HSK100A-ER25M-100	35	100	2-16
HSK100A-ER16M-160	22	160	1-10
HSK100A-ER25M-160	35	160	2-16

Power Milling Chuck 强力铣刀柄

Runout: 0.01 mm
Balancing: G6.3/15000 RPM
Usage: for clamping tools with straight collets or clamping same diameter cutting tools directly.

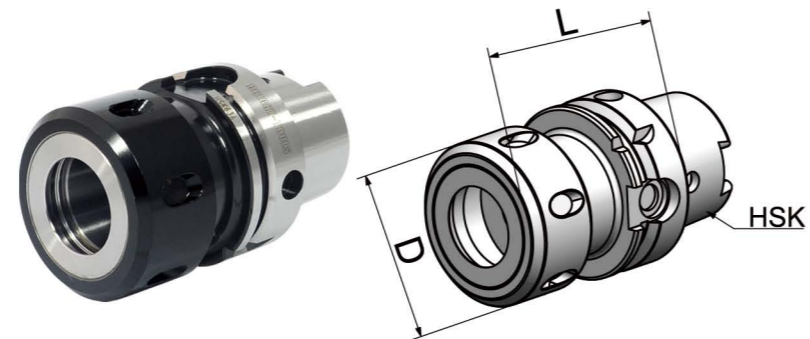


DIN 69893
ISO 12164

Size	d	D	L	Capacity
HSK63A-HC20-100	20	50	100	3-16; 20
HSK63A-HC25-100	25	59	100	3-20; 25
HSK63A-HC32-120	32	70	120	3-25; 32
HSK100A-HC20-105	20	50	105	3-16; 20
HSK100A-HC25-105	25	59	105	3-20; 25
HSK100A-HC32-120	32	70	120	3-25; 32

OZ Collet Chuck DIN6391 OZ 夹头刀柄

Runout: 0.005 mm
Balancing: G6.3/15000 RPM.
Usage: for clamping tools with straight shank in collets DIN 6388.

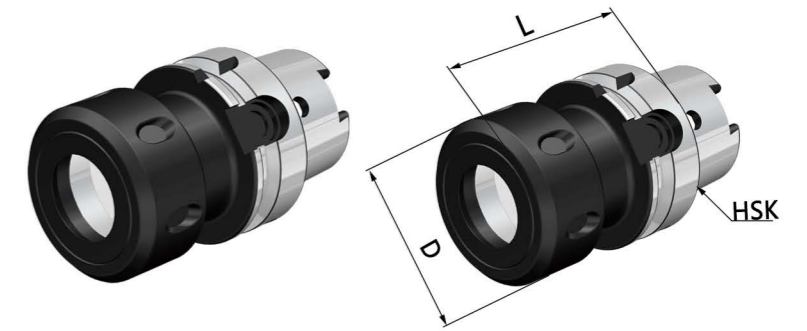


DIN 69893
ISO 12164

Size	D	L	Capacity
HSK50A-OZ16-90	43	90	2-16
HSK50A-OZ25-110	60	110	2-25
HSK63A-OZ16-100	43	100	2-16
HSK63A-OZ25-100	60	100	2-25
HSK63A-OZ32-120	72	120	3-32
HSK100A-OZ16-110	43	110	2-16
HSK100A-OZ25-120	60	120	2-25
HSK100A-OZ32-130	72	130	3-32

TG Collet Chuck TG 超强力刀柄

Runout: 0.005 mm
Cooling: AD;
 AD/B can be made by request.
Balancing: G6.3/15000 RPM.
Usage: for clamping tools with straight shank in TG collets.



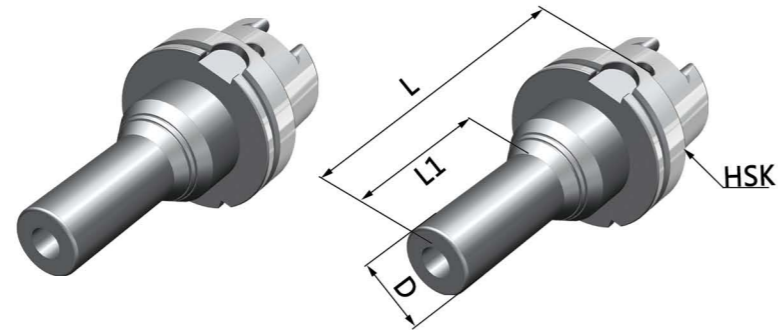
DIN 69893
ISO 12164

Size	D	L	L1	Capacity
HSK50A-TG75-110	50	110	TG 75	2-20
HSK63A-TG75-120	50	120	TG 75	2-20
HSK63A-TG100-130	60	130	TG 100	3-25
HSK100A-TG75-120	50	120	TG 100	3-20
HSK100A-TG100-130	60	130	TG 100	3-25

Precision Screw Collet Chuck PSC 后拉刀柄

DIN 69893
ISO 12164

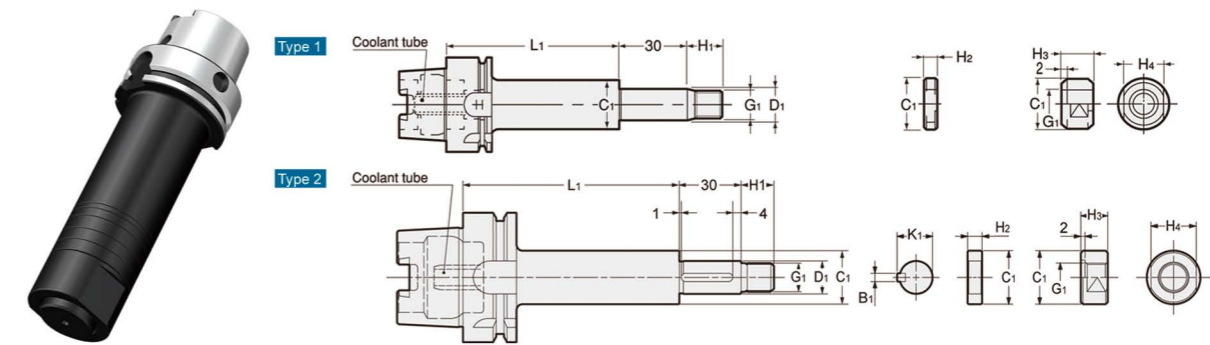
Runout: 0.003 mm
Cooling: AD
Balancing: G2.5/25000 RPM
Advantage: worm and gear design for better rigidity; Use a hex key to lock easily.



Size	D	L	L1	Capacity
HSK50A-PSC14-101	30	101	11	2-14
HSK50A-PSC14-187	30	187	85	2-14
HSK50A-PSC20-101	40	101	20	2-20
HSK63A-PSC14-92	30	92	11	2-14
HSK63A-PSC14-142	24	142	38	2-14
HSK63A-PSC14-142	30	142	61	2-14
HSK63A-PSC14-178	30	178	85	2-14
HSK63A-PSC20-92	40	92	20	2-20
HSK63A-PSC20-142	40	142	69	2-20
HSK63A-PSC20-178	40	178	94	2-20
HSK63A-PSC32-132	63	132	-	16-32
HSK80A-PSC32-137	63	137	-	16-32
HSK100A-PSC20-100	40	100	18	2-20
HSK100A-PSC20-150	40	150	48	2-20
HSK100A-PSC20-186	40	186	84	2-20
HSK100A-PSC32-139	70	139	-	16-32

Side Cutter Arbor 侧铣刀柄

DIN 69893
ISO 12164

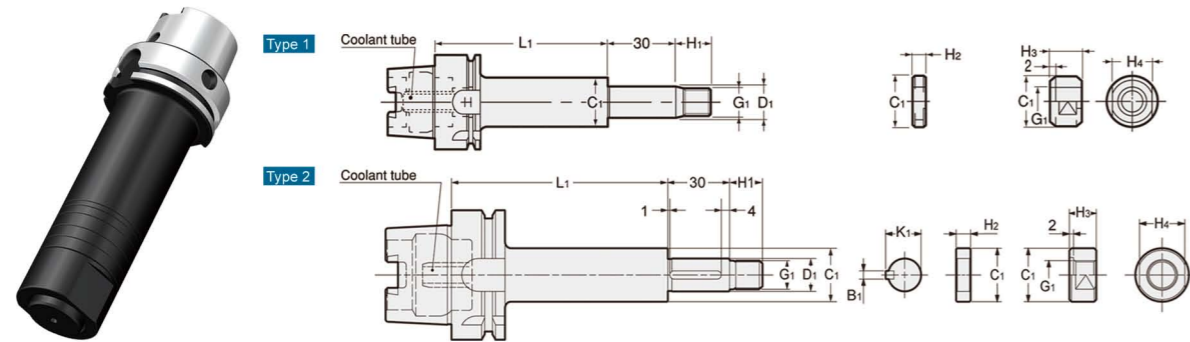


Size	Type	D6	L1	C1	G1	H1	B1	K1	H3	H4	Cutter Dia.
HSK40A-SCA13-75	1	13	75	20	M12 X 1.25	15	-	-	12	17	50
HSK40A-SCA16-75	2	16	75	26	M14 X 1.5	16	4	17.2	13	22	50 - 63
HSK40A-SCA22-75	2	22	75	34	M20 X 1.5	21	6	23.6	18	30	60 - 125
HSK50A-SCA13-75	1	13	75	20	M12 X 1.25	15	-	-	12	17	50
HSK50A-SCA16-75	2	16	75	26	M14 X 1.5	16	4	17.2	13	22	50 - 63
HSK50A-SCA22-75	2	22	75	34	M20 X 1.5	21	6	23.6	18	30	60 - 125
HSK63A-SCA13-60	1	13	60	20	M12 X 1.25	15	-	-	12	17	50
HSK63A-SCA13-90	1	13	90	20	M12 X 1.25	15	-	-	12	17	50
HSK63A-SCA16-75	2	16	75	26	M14 X 1.5	16	4	17.2	13	22	50 - 63
HSK63A-SCA16-105	2	16	105	26	M14 X 1.5	16	4	17.2	13	22	50 - 63
HSK63A-SCA22-75	2	22	75	34	M20 X 1.5	21	6	23.6	18	30	60 - 125
HSK63A-SCA22-120	2	22	120	34	M20 X 1.5	21	6	23.6	18	30	60 - 125
HSK63A-SCA27-75	2	27	75	40	M24 X 2	25	7	29	21	32	75 - 100
HSK63A-SCA27-120	2	27	120	40	M24 X 2	25	7	29	21	32	75 - 100
HSK63A-SCA32-90	2	32	90	46	M30 X 2	30	8	34	26	41	100 - 250

Runout: 0.005 mm
Usage: for holding side cutter and metal saw.
Accessory: 3/5/7/8/10/12mm spacers one piece each

Side Cutter Arbor
侧铣刀柄

DIN 69893
ISO 12164



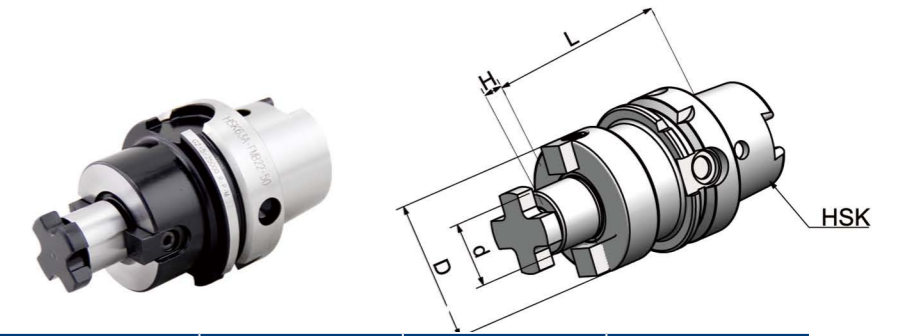
Size	Type	D6	L1	C1	G1	H1	B1	K1	H3	H4	Cutter Dia.
HSK100A-SCA13-75	1	13	75	20	M12 X 1.25	15	-	-	12	17	50
HSK100A-SCA13-105	1	13	105	20	M12 X 1.25	15	-	-	12	17	50
HSK100A-SCA16-90	2	16	90	26	M14 X 1.5	16	4	17.2	13	22	50 - 63
HSK100A-SCA16-120	2	16	120	26	M14 X 1.5	16	4	17.2	13	22	50 - 63
HSK100A-SCA22-90	2	22	90	34	M20 X 1.5	21	6	23.6	18	30	60 - 125
HSK100A-SCA22-135	2	22	135	34	M20 X 1.5	21	6	23.6	18	30	60 - 125
HSK100A-SCA27-90	2	27	90	40	M24 X 2	25	7	29	21	32	75 - 100
HSK100A-SCA27-135	2	27	135	40	M24 X 2	25	7	29	21	32	75 - 100
HSK100A-SCA32-90	2	32	90	46	M30 X 2	30	8	34	26	41	100 - 250
HSK100A-SCA32-135	2	32	135	46	M30 X 2	30	8	34	26	41	100 - 250
HSK100A-SCA40-90	2	40	90	55	M36 X 3	36	10	42.5	31	46	150 - 315
HSK100A-SCA40-135	2	40	135	55	M36 X 3	36	10	42.5	31	46	150 - 315

Runout: 0.005 mm
Usage: for holding side cutter and metal saw.
Accessory: 3/5/7/8/10/12mm spacers one piece each

Face Mill Holder DIN6357
面铣刀柄

DIN 69893
ISO 12164

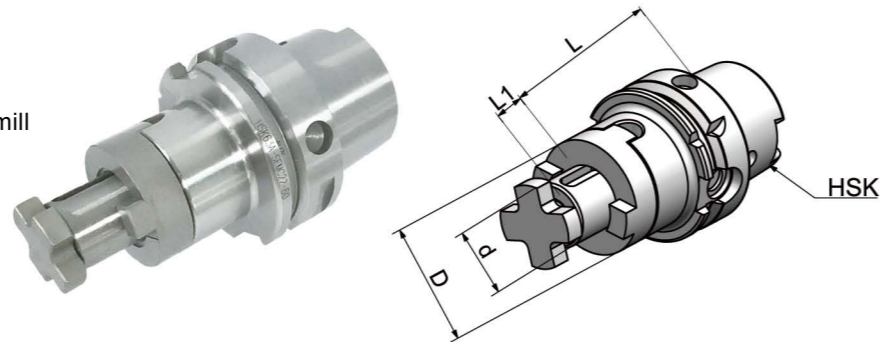
Runout: 0.005 mm
Balancing: G6.3/15000 RPM
Balancing G2.5 can be made by request.
Usage: for holding tools like shell mill cutters.



Size	d	D	H	L
HSK32A-FMB16-45	16	38	17	45
HSK32A-FMB22-50	22	48	19	50
HSK40A-FMB22-50	22	48	19	50
HSK40A-FMB27-55	27	58	21	55
HSK40A-FMB32-60	32	78	24	60
HSK50A-FMB16-50	16	38	17	50
HSK50A-FMB22-60	22	48	19	60
HSK50A-FMB27-60	27	58	21	60
HSK50A-FMB32-60	32	78	24	60
HSK63A-FMB16-50	16	38	17	50
HSK63A-FMB22-50	22	48	19	50
HSK63A-FMB27-60	27	58	21	60
HSK63A-FMB32-60	32	78	24	60
HSK63A-FMB40-60	40	88	27	60
HSK63A-FMB16-100	16	38	17	100
HSK63A-FMB22-100	22	48	19	100
HSK63A-FMB27-100	27	58	21	100
HSK63A-FMB32-100	32	78	24	100
HSK63A-FMB40-100	40	88	27	100
HSK80A-FMB22-50	22	48	19	50
HSK80A-FMB27-50	27	58	21	50
HSK80A-FMB32-60	32	78	24	60
HSK80A-FMB40-60	40	88	27	60
HSK100A-FMB22-50	22	48	19	50
HSK100A-FMB27-50	27	58	21	50
HSK100A-FMB32-60	32	78	24	60
HSK100A-FMB40-60	40	88	27	60
HSK100A-FMB60-70	60	138	25	70

Combi Shell Mill Holder DIN6358 混合插入式铣刀柄

Runout: 0.005 mm
Balancing: G6.3/15000 RPM
Usage: for holding tools like shell mill cutters and angular milling cutters.

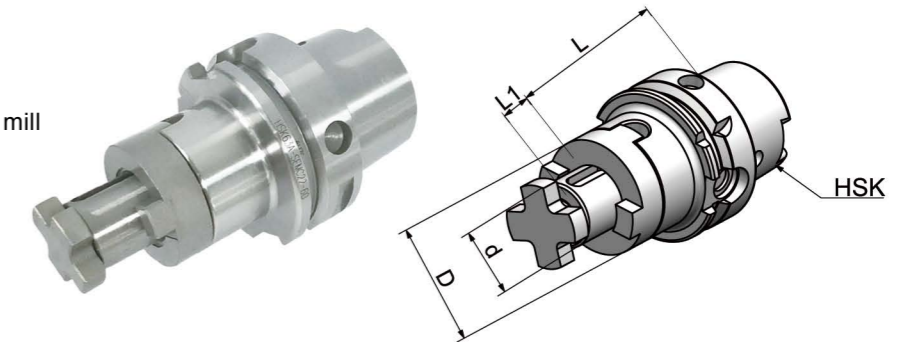


DIN 69893
ISO 12164

Size	d	D	L	L1
HSK32A-SEMC16-55	16	32	55	17
HSK32A-SEMC22-55	22	40	55	19
HSK32A-SEMC27-65	27	48	65	21
HSK32A-SEMC32-65	32	58	65	24
HSK40A-SEMC16-50	16	32	50	17
HSK40A-SEMC22-50	22	40	50	19
HSK40A-SEMC27-65	27	48	65	21
HSK40A-SEMC32-65	32	58	65	24
HSK50A-SEMC16-50	16	32	50	17
HSK50A-SEMC22-50	22	40	50	19
HSK50A-SEMC27-65	27	48	65	21
HSK50A-SEMC32-65	32	58	65	24
HSK63A-SEMC16-60	16	32	60	17
HSK63A-SEMC22-60	22	40	60	19
HSK63A-SEMC27-60	27	48	60	21
HSK63A-SEMC32-60	32	58	60	24
HSK63A-SEMC40-70	40	70	70	27
HSK63A-SEMC16-100	16	32	100	17
HSK63A-SEMC22-100	22	40	100	19
HSK63A-SEMC27-100	27	48	100	21
HSK63A-SEMC32-100	32	58	100	24

Combi Shell Mill Holder DIN6358 混合插入式铣刀柄

Runout: 0.005 mm
Balancing: G6.3/15000 RPM
Usage: for holding tools like shell mill cutters and angular milling cutters.



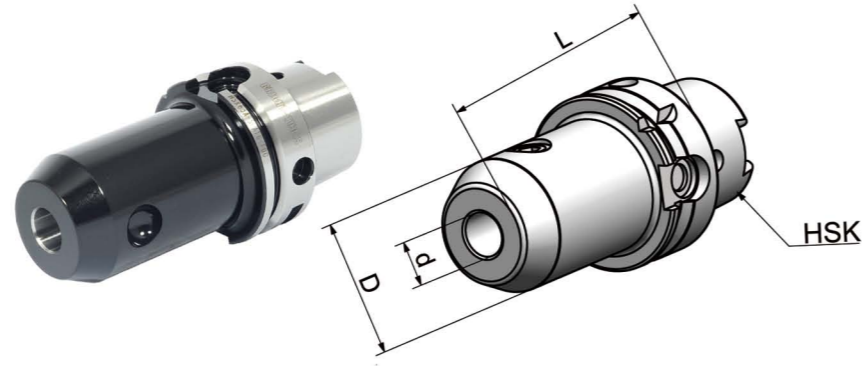
DIN 69893
ISO 12164

Size	d	D	L	L1
HSK80A-SEMC16-60	16	32	60	17
HSK80A-SEMC22-60	22	40	60	19
HSK80A-SEMC27-60	27	48	60	21
HSK80A-SEMC32-60	32	58	60	24
HSK80A-SEMC40-70	40	70	70	27
HSK100A-SEMC16-60	16	32	60	17
HSK100A-SEMC22-60	22	40	60	19
HSK100A-SEMC27-60	27	48	60	21
HSK100A-SEMC32-60	32	58	60	24
HSK100A-SEMC40-70	40	70	70	27

End Mill Holder DIN6359/1835B (Weldon)

侧固刀柄

Runout: 0.005 mm
Bore Tolerance: H5
Balancing: G6.3/15000 RPM
 Balancing G2.5 can be made by request.
Usage: for clamping tools with straight shank and inclined flat DIN1835-B.



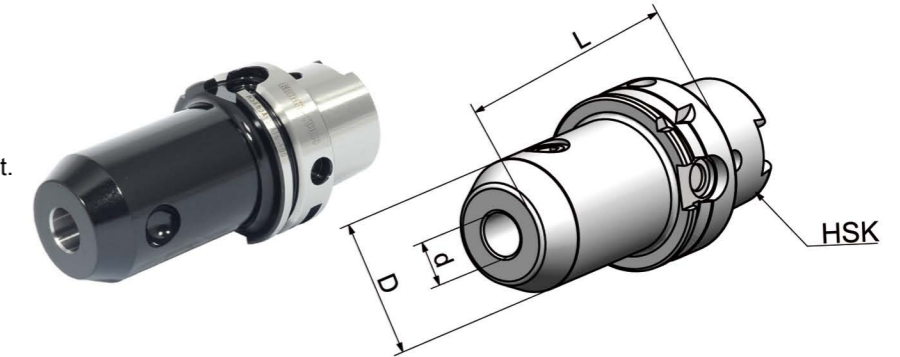
DIN 69893
ISO 12164

Size	d	D	L
HSK32A-SLA06-60	6	25	60
HSK32A-SLA08-60	8	28	60
HSK32A-SLA10-65	10	35	65
HSL32A-SLA12-70	12	42	70
HSK32A-SLA14-75	14	44	75
HSK32A-SLA16-75	16	48	75
HSK32A-SLA20-90	20	52	90
HSK40A-SLA06-60	6	25	60
HSK40A-SLA08-60	8	28	60
HSK40A-SLA10-60	10	35	60
HSK40A-SLA12-70	12	42	70
HSK40A-SLA14-75	14	44	75
HSK40A-SLA16-75	16	48	75
HSK40A-SLA18-85	18	50	85
HSK40A-SLA20-85	20	52	85
HSK40A-SLA25-95	25	60	95
HSK40A-SLA32-105	32	60	105
HSK50A-SLA06-65	6	25	65
HSK50A-SLA08-65	8	28	65
HSK50A-SLA10-65	10	35	65
HSK50A-SLA12-80	12	42	80
HSK50A-SLA14-80	14	44	80
HSK50A-SLA16-80	16	48	80
HSK50A-SLA18-80	18	50	80
HSK50A-SLA20-80	20	52	80
HSK50A-SLA25-110	25	60	110
HSK50A-SLA32-110	32	60	110

End Mill Holder DIN6359/1835B (Weldon)

侧固刀柄

Runout: 0.005 mm
Bore Tolerance: H5
Balancing: G6.3/15000 RPM
 Balancing G2.5 can be made by request.
Usage: for clamping tools with straight shank and inclined flat DIN1835-B.



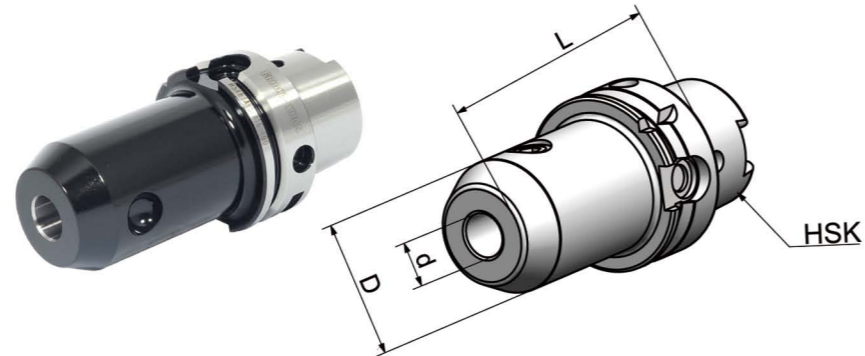
DIN 69893
ISO 12164

Size	d	D	L
HSK63A-SLA06-65	6	25	65
HSK63A-SLA08-65	8	28	65
HSK63A-SLA10-65	10	35	65
HSK63A-SLA12-80	12	42	80
HSK63A-SLA14-80	14	44	80
HSK63A-SLA16-80	16	48	80
HSK63A-SLA20-80	20	52	80
HSK63A-SLA25-110	25	65	110
HSK63A-SLA32-110	32	72	110
HSK63A-SLA40-125	40	80	125
HSK63A-SLA06-100	6	25	100
HSK63A-SLA08-100	8	28	100
HSK63A-SLA10-100	10	35	100
HSK63A-SLA14-100	14	44	100
HSK63A-SLA16-100	16	48	100
HSK63A-SLA18-100	18	50	100
HSK63A-SLA20-100	20	52	100
HSK63A-SLA06-160	6	25	160
HSK63A-SLA08-160	8	28	160
HSK63A-SLA10-160	10	35	160
HSK63A-SLA12-160	12	42	160
HSK63A-SLA14-160	14	44	160
HSK63A-SLA16-160	16	48	160
HSK63A-SLA18-160	18	50	160
HSK63A-SLA20-160	20	52	160

End Mill Holder DIN6359/1835B (Weldon)

侧固刀柄

Runout: 0.005 mm
Bore Tolerance: H5
Balancing: G6.3/15000 RPM
 Balancing G2.5 can be made by request.
Usage: for clamping tools with straight shank and inclined flat DIN1835-B.



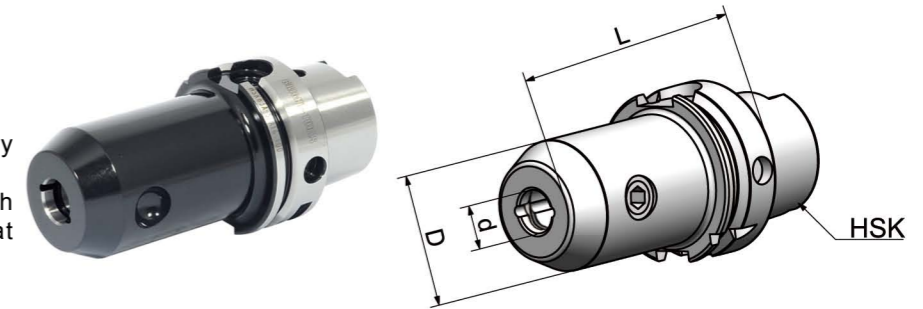
DIN 69893
ISO 12164

Size	d	D	L
HSK80A-SLA06-80	6	25	80
HSK80A-SLA08-80	8	28	80
HSK80A-SLA10-80	10	35	80
HSK80A-SLA12-80	12	42	80
HSK80A-SLA14-80	14	44	80
HSK80A-SLA16-100	16	48	100
HSK80A-SLA18-100	18	50	100
HSK80A-SLA20-100	20	52	100
HSK80A-SLA25-100	25	65	100
HSK80A-SLA32-110	32	72	110
HSK80A-SLA40-120	40	80	120
HSK100A-SLA08-80	8	28	80
HSK100A-SLA10-80	10	35	80
HSK100A-SLA12-80	12	42	80
HSK100A-SLA14-80	14	44	80
HSK100A-SLA14-80	14	44	80
HSK100A-SLA16-100	16	48	100
HSK100A-SLA20-100	20	52	100
HSK100A-SLA25-100	25	65	100
HSK100A-SLA32-100	32	72	100
HSK100A-SLA40-105	40	80	105

End Mill Holder with Coolant Channels

中心出水侧固刀柄

Runout: 0.005 mm
Bore Tolerance: H5
Balancing: G6.3/15000 RPM
 Balancing G2.5 can be made by request.
Usage: for clamping tools with straight shank and inclined flat DIN1835-B.



DIN 69893
ISO 12164

Size	d	D	L
HSK63A-SLA06-65K	6	25	65
HSK63A-SLA08-65K	8	28	65
HSK63A-SLA10-65K	10	35	65
HSK63A-SLA12-80K	12	42	80
HSK63A-SLA14-80K	14	44	80
HSK63A-SLA16-80K	16	48	80
HSK63A-SLA18-80K	18	50	80
HSK63A-SLA20-80K	20	52	80
HSK63A-SLA25-110K	25	65	110
HSK63A-SLA32-110K	32	72	110
HSK63A-SLA40-125K	40	80	125
HSK100A-SLA06-80K	6	25	80
HSK100A-SLA08-80K	8	28	80
HSK100A-SLA10-80K	10	35	80
HSK100A-SLA12-80K	12	42	80
HSK100A-SLA14-80K	14	44	80
HSK100A-SLA16-100K	16	48	100
HSK100A-SLA18-100K	18	50	100
HSK100A-SLA20-100K	20	52	100
HSK100A-SLA25-100K	25	65	100
HSK100A-SLA32-100K	32	72	100
HSK100A-SLA40-105K	40	80	105

Morse Taper Adapter with Tang DIN6383 带扁尾莫式刀柄

Runout: 0.005 mm
Balancing: G6.3/15000 RPM
 Balancing G2.5 can be made by request.
Usage: for holding tools with Morse taper shank and tang according to DIN 228-1 form B.

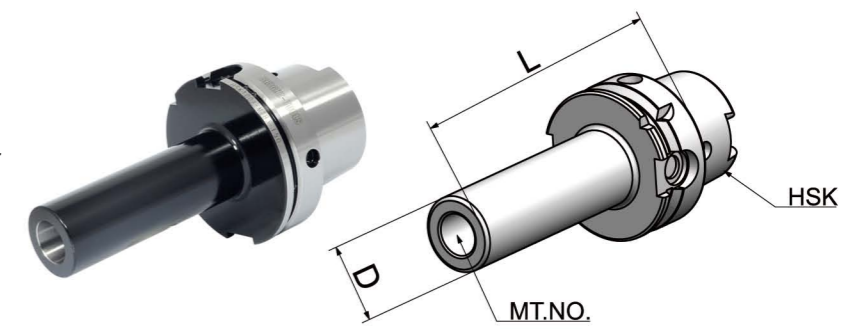


DIN 69893
ISO 12164

Size	MT. NO.	D	L
HSK50A-MTA1-100	1	25	100
HSK50A-MTA2-120	2	32	120
HSK50A-MTA3-140	3	40	140
HSK63A-MTA1-100	1	25	100
HSK63A-MTA2-120	2	32	120
HSK63A-MTA3-140	3	40	140
HSK63A-MTA4-160	4	48	160
HSK80A-MTA1-100	1	25	100
HSK80A-MTA2-120	2	32	120
HSK80A-MTA3-140	3	40	140
HSK80A-MTA4-160	4	48	160
HSK100A-MTA1-110	1	25	110
HSK100A-MTA2-120	2	32	120
HSK100A-MTA3-150	3	40	150
HSK100A-MTA4-170	4	48	170
HSK100A-MTA5-200	5	63	200

Morse Taper Adapter with Drawbar DIN6364 带螺纹孔莫式刀柄

Runout: 0.005 mm
Balancing: G6.3/15000 RPM
 Balancing G2.5 can be made by request.
Usage: for clamping tools with Morse taper shank and thread according to DIN 228-1 form A.

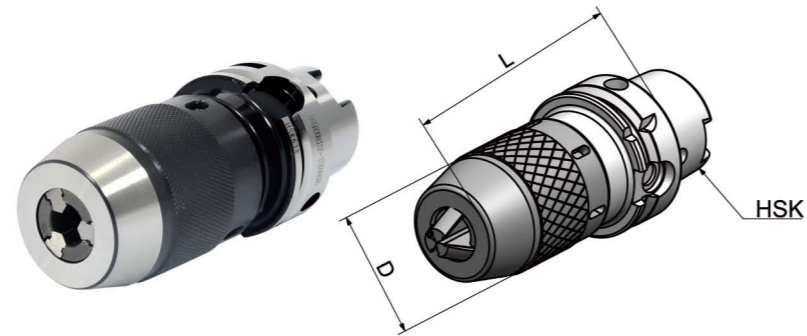


DIN 69893
ISO 12164

Size	MT. NO.	D	L
HSK50A-MTB1-100	1	25	100
HSK50A-MTB2-120	2	32	120
HSK50A-MTB3-140	3	40	140
HSK63A-MTB1-100	1	25	100
HSK63A-MTB2-120	2	32	120
HSK63A-MTB3-140	3	40	140
HSK63A-MTB4-160	4	48	160
HSK80A-MTB1-110	1	25	110
HSK80A-MTB2-120	2	32	120
HSK80A-MTB3-150	3	40	150
HSK80A-MTB4-170	4	48	170
HSK100A-MTB1-110	1	25	110
HSK100A-MTB2-120	2	32	120
HSK100A-MTB3-150	3	40	150
HSK100A-MTB4-170	4	48	170
HSK100A-MTB5-200	5	63	200

APU Drill Chuck Holder APU 钻夹头刀柄

Runout: 0.08 mm
Cooling: Central cooling is unavailable.
Balancing: G6.3/15000 RPM
Usage: for clamping tools with straight shank.



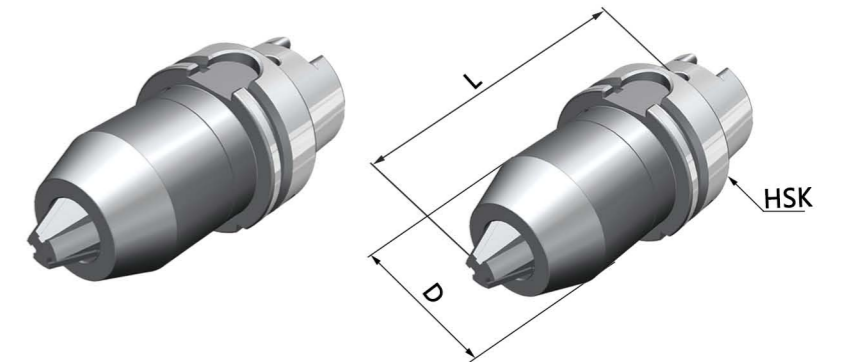
DIN 69893
ISO 12164

Size	D	L	Capacity
HSK50A-APU08-90	38	90	1-8
HSK50A-APU08-120	38	120	1-8
HSK50A-APU13-116	48	116	1-13
HSK50A-APU16-116	53	116	3-16
HSK63A-APU08-85	38	85	1-8
HSK63A-APU08-120	38	120	1-8
HSK63A-APU13-150	48	150	1-13
HSK63A-APU13-104	48	104	1-13
HAK63A-APU16-106	53	106	3-16
HSK63A-APU16-155	53	155	3-16
HSK80A-APU13-109	48	109	1-13
HSK80A-APU16-114	53	114	3-16
HSK100A-APU13-155	48	155	1-13
HSK100A-APU16-160	53	160	3-16
HSK100A-APU13-107	48	107	1-13
HAK100A-APU16-112	53	112	3-16

Precision Drill Chuck Holder 精密钻夹头刀柄



Advantages:
 1) Runout: 0.03 mm;
 2) Internal cooling;
 3) Worm and gear design for better clamping force;
 4) Use a hex key to lock easily.



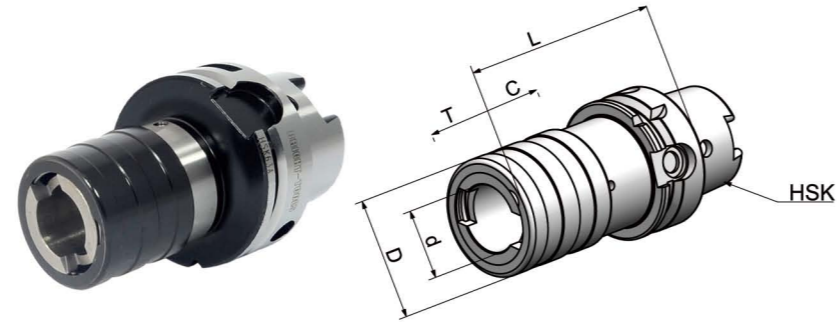
DIN 69893
ISO 12164

Size	D	L	Capacity
HSK40A-CPU1.5-50	20	50	0.2-1.5
HSK40A-CPU3-50	20	50	1.5-3
HSK50A-CPU10-94	38	94	0.5-10
HSK63A-CPU10-85	38	85	0.5-10
HSK50A-CPU16-107	50	107	1-16
HSK63A-CPU16-98	50	98	1-16
HSK80A-CPU16-101	50	101	1-16
HSK100A-CPU16-104	50	104	1-16

Quick Change Tapping Chuck with Length Compensation 弹性快换攻丝刀柄

DIN 69893
ISO 12164

Usage: for tapping preferably. Axial length compensation on tension and pressure.



Size	Collet Size	d	D	L	T	C
HSK32A-TC312-80	1	19	36	80	7.5	7.5
HSK40A-TC312-80	1	19	36	80	7.5	7.5
HSK40A-TC820-103	2	31	53	103	12.5	12.5
HSK50A-TC312-72	1	19	36	72	7.5	7.5
HSK50A-TC820-110	2	31	53	110	12.5	12.5
HSK63A-TC312-102	1	19	36	102	7.5	7.5
HSK63A-TC820-140	2	31	53	140	12.5	12.5
HSK63A-TC1433-141	3	48	78	141	22	22
HSK80A-TC312-72	1	19	36	72	7.5	7.5
HSK80A-TC820-95	2	31	53	95	12.5	12.5
HSK80A-TC1433-141	3	48	78	141	22	22
HSK100A-TC312-112	1	19	36	112	7.5	7.5
HSK100A-TC820-148	2	31	53	148	12.5	12.5
HSK100A-TC1433-144	3	48	78	144	22	22

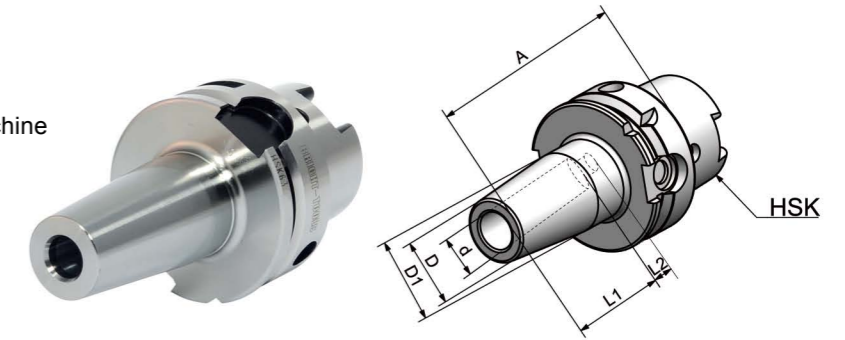
Shrink Fit Chuck 热缩刀柄

DIN 69893
ISO 12164

Runout: 0.003 mm

Blancing: G2.5/25000 RPM

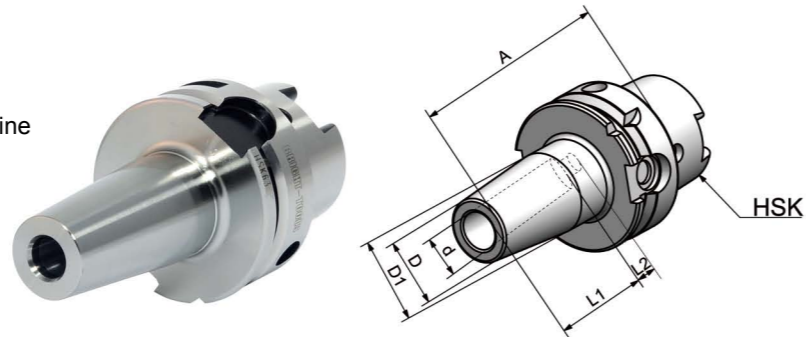
Usage: Working with induction shrink machine for mounting straight shank tools.



Size	d	A	D	D1	L1	L2
HSK32A-3-65	3	65	15	20	20	-
HSK32A-4-65	4	65	15	20	20	5
HSK32A-5-65	5	65	15	20	20	5
HSK32A-6-75	6	75	20	27	36	10
HSK32A-8-75	8	75	20	27	36	10
HSK32A-10-75	10	75	24	29	42	10
HSK32A-12-80	12	80	24	29	47	10
HSK40A-3-60	3	60	15	20	20	-
HSK40A-4-60	4	60	15	20	20	5
HSK40A-5-60	5	60	15	20	25	5
HSK40A-6-80	6	80	20	27	36	10
HSK40A-8-80	8	80	20	27	36	10
HSK40A-10-80	10	80	24	32	42	10
HSK40A-12-90	12	90	24	32	47	10
HSK40A-14-90	14	90	27	34	47	10
HSK40A-16-90	16	90	27	34	50	10

Shrink Fit Chuck 热缩刀柄

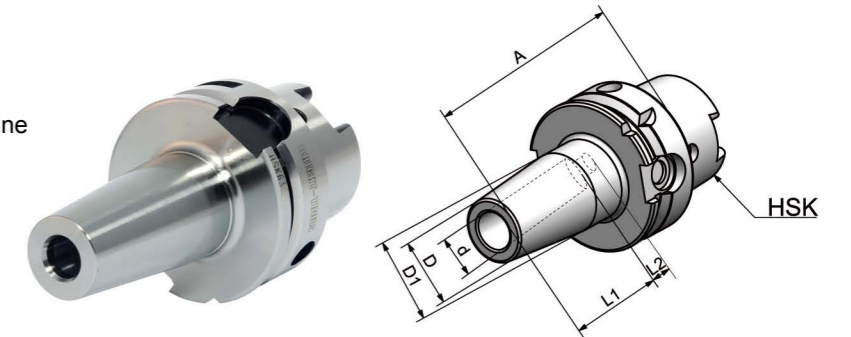
Runout: 0.003 mm
Blancing: G2.5/25000 RPM
Usage: Working with induction shrink machine for mounting straight shank tools.



Size	d	A	D	D1	L1	L2
HSK50A-3-80	3	80	15	20	20	-
HSK50A-4-80	4	80	15	20	20	5
HSK50A-5-80	5	80	15	20	25	5
HSK50A-6-80	6	80	20	27	36	10
HSK50A-8-80	8	80	20	27	36	10
HSK50A-10-85	10	85	24	32	42	10
HSK50A-12-90	12	90	24	32	47	10
HSK50A-14-90	14	90	27	34	47	10
HSK50A-16-95	16	95	27	34	50	10
HSK50A-18-95	18	95	33	42	50	10
HSK50A-20-100	20	100	33	42	52	10
HSK63A-3-90	3	90	15	20	20	-
HSK63A-4-90	4	90	15	20	20	5
HSK63A-5-90	5	90	15	25	25	5
HSK63A-6-80	6	80	20	27	36	10
HSK63A-8-80	8	80	20	27	36	10
HSK63A-10-85	10	85	24	32	42	10
HSK63A-12-90	12	90	24	32	47	10
HSK63A-14-90	14	90	27	34	47	10
HSK63A-16-95	16	95	27	34	50	10
HSK63A-18-95	18	95	33	42	50	10
HSK63A-20-100	20	100	33	42	52	10
HSK63A-25-115	25	115	44	53	58	10
HSK63A-32-120	32	120	44	53	62	10

Shrink Fit Chuck 热缩刀柄

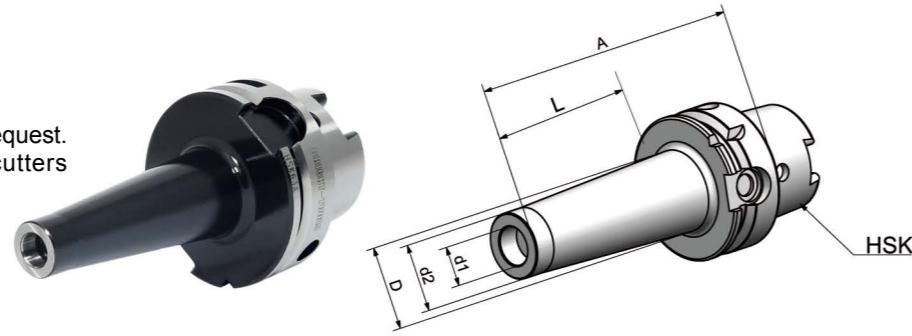
Runout: 0.003 mm
Blancing: G2.5/25000 RPM
Usage: Working with induction shrink machine for mounting straight shank tools.



Size	d	A	D	D1	L1	L2
HSK80A-6-85	6	85	20	27	36	10
HSK80A-8-85	8	85	20	27	36	10
HSK80A-10-90	10	90	24	32	42	10
HSK80A-12-95	12	95	24	32	47	10
HSK80A-14-95	14	95	27	34	47	10
HSK80A-16-100	16	100	27	34	50	10
HSK80A-18-100	18	100	33	42	50	10
HSK80A-20-105	20	105	33	42	52	10
HSK80A-25-115	25	115	44	53	58	10
HSK80A-32-120	32	120	44	53	62	10
HSK100A-6-85	6	85	20	27	36	10
HSK100A-8-85	8	85	20	27	36	10
HSK100A-10-90	10	90	24	32	42	10
HSK100A-12-95	12	95	24	32	47	10
HSK100A-14-95	14	95	27	34	47	10
HSK100A-16-100	16	100	27	34	50	10
HSK100A-18-100	18	100	33	42	50	10
HSK100A-20-105	20	105	33	42	52	10
HSK100A-25-115	25	115	44	53	58	10
HSK100A-32-120	32	120	44	53	62	10

Screw-in Milling Cutter Holder SOM 锁牙刀柄

Runout: 0.005 mm
Balancing: G6.3/15000 RPM;
 Balancing G2.5 can be made by request.
Usage: for mounting screw-in cutters with thread.

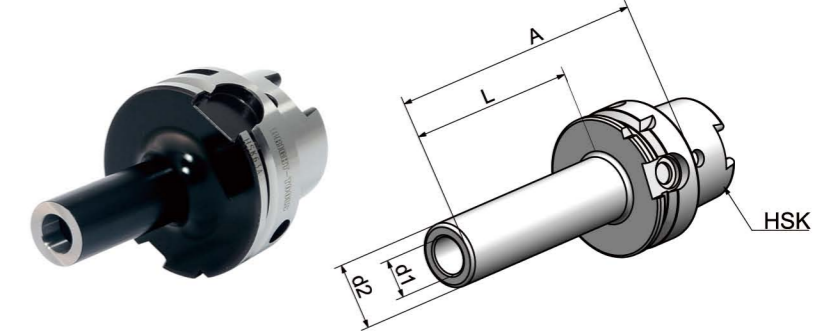


DIN 69893
ISO 12164

Size	M	d1	d2	A	L	D
HAK63A-SOM08-51 L=25	8	8.5	14.5	51	25	15
HSK63A-SOM08-76 L=50	8	8.5	14.5	76	50	23
HSK63A-SOM08-101 L=75	8	8.5	14.5	101	75	23
HSK63A-SOM10-51 L=25	10	10.5	18	51	25	20
HSK63A-SOM10-76 L=50	10	10.5	18	76	50	23
HSK63A-SOM10-126 L=100	10	10.5	18	126	100	32
HSK63A-SOM10-176 L=150	10	10.5	18	176	150	36.5
HSK63A-SOM12-51 L=25	12	12.5	21	51	25	24
HSK63A-SOM12-76 L=50	12	12.5	21	76	50	34
HSK63A-SOM12-101 L=75	12	12.5	21	101	75	31
HSK63A-SOM12-126 L=100	12	12.5	21	126	100	33
HSK63A-SOM12-176 L=150	12	12.5	21	176	150	40
HSK63A-SOM16-51 L=25	16	17	29	51	25	29
HSK63A-SOM16-76 L=50	16	17	29	76	50	34
HSK63A-SOM16-101 L=75	16	17	29	101	75	34
HSK63A-SOM16-126 L=100	16	17	29	126	100	36
HSK63A-SOM16-176 L=150	16	17	29	176	150	42.5
HSK100A-SOM08-79 L=50	8	8.5	14.5	79	50	23
HSK100A-SOM10-79 L=50	10	10.5	18	79	50	23
HSK100A-SOM10-129 L=100	10	10.5	18	129	100	32
HSK100A-SOM10-179 L=150	10	10.5	18	179	150	36.5
HSK100A-SOM12-79 L=50	12	12.5	21	79	50	24
HSK100A-SOM12-129 L=100	12	12.5	21	129	100	33
HSK100A-SOM12-179 L=150	12	12.5	21	179	150	40
HSK100A-SOM16-79 L=50	16	17	29	79	50	34
HSK100A-SOM16-129 L=100	16	17	29	129	100	36
HSK100A-SOM16-179 L=150	16	17	29	179	150	42.5

Screw-in Milling Cutter Holder SOM 锁牙刀柄

Runout: 0.005 mm
Balancing: G6.3/15000 RPM;
 Balancing G2.5 can be made by request.
Usage: for mounting screw-in cutters with thread.



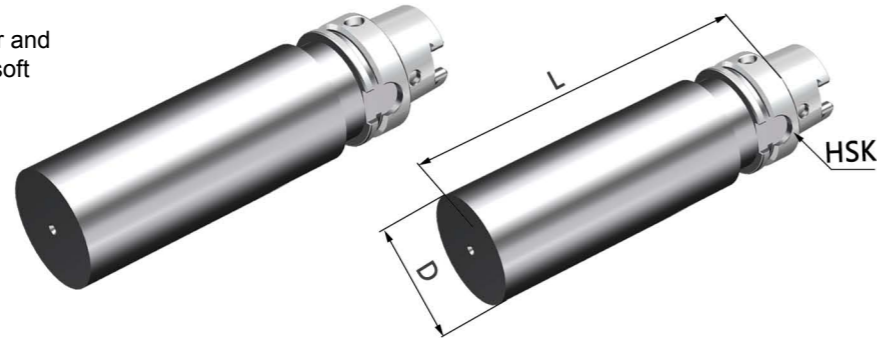
DIN 69893
ISO 12164

Size	M	d1	d2	A	L
HSK63A-M10-126 L=100	10	10.5	18	126	100
HSK63A-M10-176 L=150	10	10.5	18	176	150
HSK63A-M12-101 L=75	12	12.5	21	101	75
HSK63A-M12-126 L=100	12	12.5	21	126	100
HSK63A-M12-176 L=150	12	12.5	21	176	150
HSK63A-M16-101 L=75	16	17	29	101	75
HSK63A-M16-126 L=100	16	17	29	126	100
HSK63A-M16-176 L=150	16	17	29	176	150
HSK100A-M10-129 L=100	10	10.5	18	129	100
HSK100A-M10-179 L=150	10	10.5	18	179	150
HSK100A-M12-126 L=100	12	12.5	21	126	100
HSK100A-M12-179 L=150	12	12.5	21	179	150
HSK100A-M16-129 L=100	16	17	29	129	100
HSK100A-M16-179 L=150	16	17	29	179	150

Boring Bar Blank 基础柄

DIN 69893
ISO 12164

Usage: used for special tools; taper and flange are hardened and grinded, soft blank side for later processing.



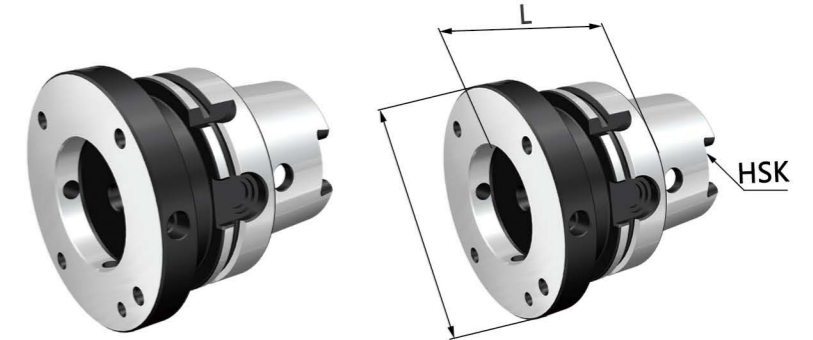
Size	D	L
HSK32A-34-100	34	100
HSK32A-34-200	34	200
HSK40A-40-100	40	100
HSK40A-40-200	40	200
HSK40A-63-150	63	150
HSK50A-53-100	53	100
HSK50A-53-200	53	200
HSK50A-83-175	83	175
HSK63A-63-100	63	100
HSK63A-63-200	63	200
HSK63A-102-200	102	200
HSK80A-83-100	83	100
HSK80A-83-200	83	200
HSK80A-127-200	127	200
HSK100A-102-100	102	100
HSK100A-102-200	102	200
HSK100A-127-200	127	200

Other sizes can be made by request.

Runout Adjustable Flange Adapter 可调节精度法兰刀柄

DIN 69893
ISO 12164

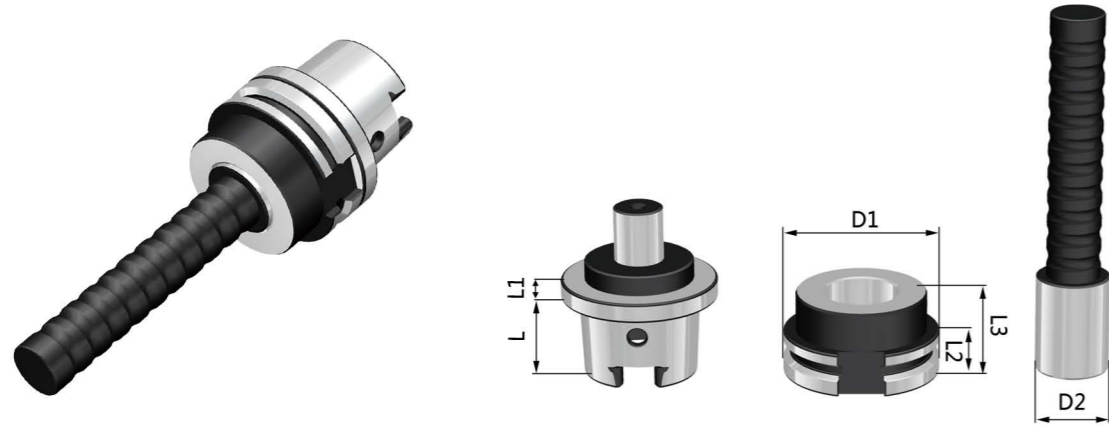
Runout: can be adjusted to 0.002mm
Surface Flatness: 0.002 mm
Surface Runout: 0.002 mm
Balancing: G2.5/25000 RPM
Usage: flange connection, use screws to adjust tool holder runout



Size	HSK-A	D	L	G	G1
HSK40A-MOD060-060	40	60	60	M5	M8x1
HSK50A-MOD060-060	50	60	60	M5	M8x1
HSK50A-MOD070-060	50	70	60	M6	M8x1
HSK50A-MOD080-060	50	80	60	M6	M8x1
HSK63A-MOD060-060	63	60	60	M5	M8x1
HSK63A-MOD070-060	63	70	60	M6	M8x1
HSK63A-MOD080-060	63	80	60	M6	M8x1
HSK63A-MOD100-065	63	100	65	M8	M10x1
HSK63A-MOD117-065	63	117	65	M8	M10x1
HSK80A-MOD060-050	80	60	50	M5	M8x1
HSK80A-MOD070-060	80	70	60	M6	M8x1
HSK80A-MOD080-060	80	80	60	M6	M8x1
HSK80A-MOD100-065	80	100	65	M8	M10x1
HSK80A-MOD117-065	80	117	65	M8	M10x1
HSK80A-MOD140-075	80	140	75	M10	M10x1
HSK100A-MOD060-055	100	60	55	M5	M8x1
HSK100A-MOD070-055	100	70	55	M6	M8x1
HSK100A-MOD080-055	100	80	55	M6	M8x1
HSK100A-MOD100-065	100	100	65	M8	M10x1
HSK100A-MOD117-065	100	117	65	M8	M10x1
HSK100A-MOD140-075	100	140	75	M10	M10x1

Alignment Tool for ATC Arm
调整机械手用组合模具

DIN 69893
ISO 12164



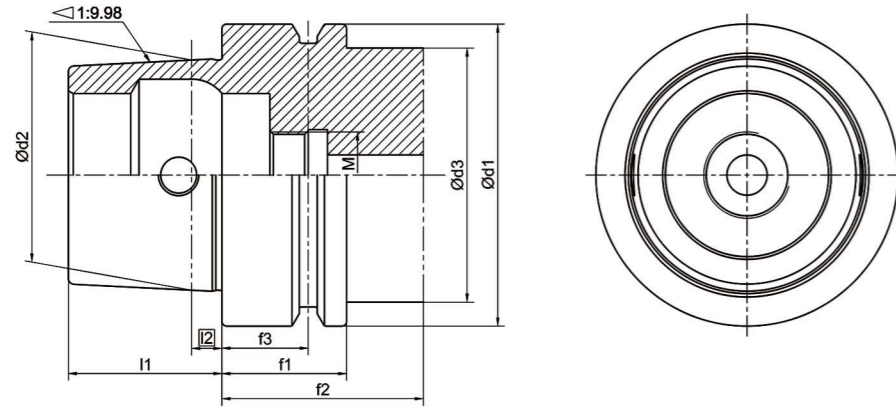
Size	D1	D2	L	L1	L2	L3	M
HSK50A-ATC-25D	-	50	25	8	22	18	M6
HSK63A-ATC-30D	-	63	32	8	30	18	M8
HSK80A-ATC-35D	-	80	40	8	36	18	M10
HSK100A-ATC-40D	-	100	50	10	45	19	M10

Usage:

- 1) Put the Taper to the machine Spindle
- 2) Install flange to the ATC arm
- 3) Insert Pin into the flange
- 4) Adjust ATC arm and make sure the pin front part into the flange completely

HSK-E Taper Standard HSK-E 锥柄标准

DIN 69893
ISO 12164



Size	d1	d2	d3	l1	l2	f1	f2	f3
HSK20E	20	15.203	16	10	2	8	16	3.5
HSK25E	25	19.006	20	13	2.5	10	20	4.5
HSK32E	32	24.007	26	16	3.2	20	35	16
HSK40E	40	30.007	34	20	4	20	35	16
HSK50E	50	38.009	42	25	5	26	42	18
HSK63E	63	48.010	53	32	6.3	26	42	18

Taper standard: DIN 69893; ISO 12164

Material: Alloyed case hardened steel

Surface Treatment: Blackening and Bright

Taper tolerance: <math><AT3</math>

Hardness: HRC 58-62

Carbon depth: 0.8 ± 0.2 mm

Surface Roughness: $Ra < 0.005$ mm

Balancing: G6.3/15000; G2.5/25000



HSK-E



ER Collet Chuck ----- 35
ER 弹簧夹头刀柄 ----- 35



Face Mill Holder ----- 36
面铣刀柄 ----- 36



End Mill Holder ----- 37
侧固刀柄 ----- 37



Shrink Fit Chuck ----- 39
热缩刀柄 ----- 39

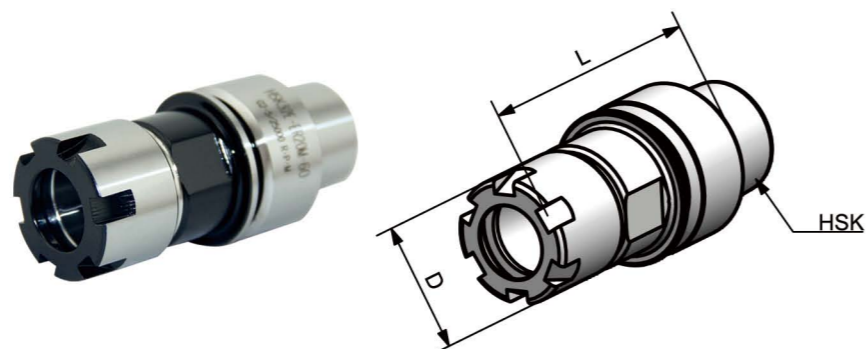


Precision Drill Chuck Holder --- 41
精密钻头刀柄 ----- 41

ER Collet Chuck DIN6499

ER 弹簧夹头刀柄

Runout: 0.003 mm
Balancing: G2.5/25000 RPM
Usage: for clamping tools with straight shank in collets DIN 6499.



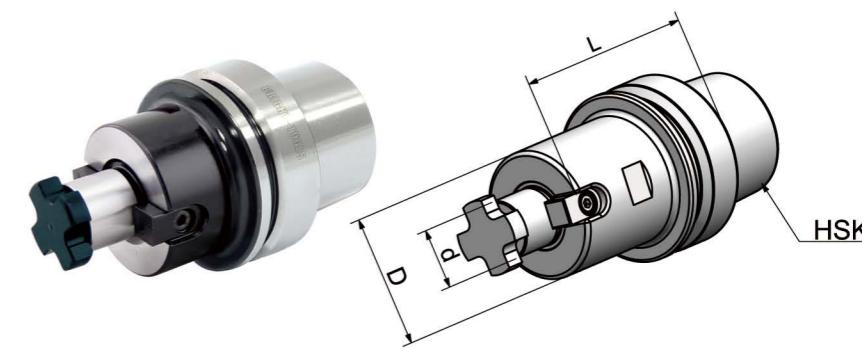
DIN 69893
ISO 12164

Size	D	L	Capacity
HSK25E-ER16M-52	22	52	1-10
HSK25E-ER16A-65	28	65	1-10
HSK25E-ER25-70	42	70	2-16
HSK32E-ER11M-60	16	60	1-7
HSK32E-ER16M-60	22	60	1-10
HSK32E-ER20M-60	28	60	1-13
HSK32E-ER16A-60	28	60	1-10
HSK32E-ER20A-60	34	60	1-13
HSK32E-ER25-85	42	85	2-16
HSK32E-ER32-95	50	95	2-20
HSK40E-ER16A-60	28	60	1-10
HSK40E-ER20A-60	34	60	1-13
HSK40E-ER25-75	42	75	2-16
HSK40E-ER32-100	50	100	2-20
HSK50E-ER16A-80	28	80	1-10
HSK50E-ER25-80	42	80	2-16
HSK50E-ER32-85	50	85	2-20
HSK50E-ER40-100	63	100	3-26
HSK63E-ER16A-75	28	75	1-10
HSK63E-ER25-80	42	80	2-16
HSK63E-ER32-90	50	90	2-20
HSK63E-ER40-120	63	120	3-26

Face Mill Holder DIN6357

面铣刀柄

Runout: 0.005 mm
Balancing: G2.5/25000 RPM
Usage: for holding tools like shell mill cutters.

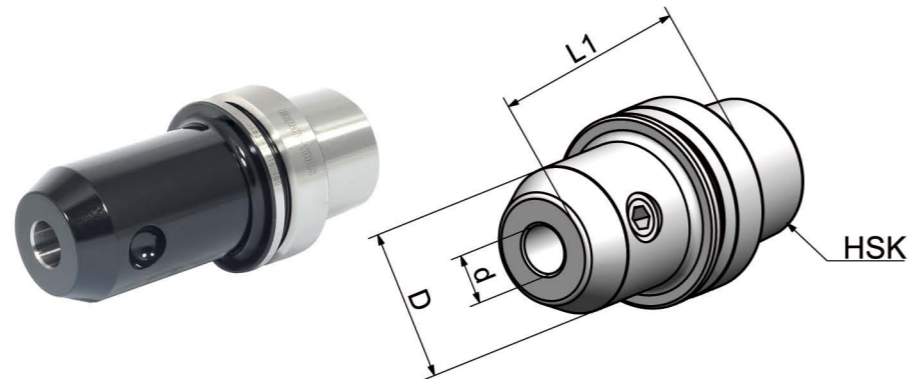


DIN 69893
ISO 12164

Size	d	D	L1
HSK32E-FMB16-50	16	38	50
HSK40E-FMB16-50	16	38	50
HSK40E-FMB22-50	22	48	50
HSK40E-FMB27-55	27	58	55
HSK50E-FMB16-50	16	38	50
HSK50E-FMB22-60	22	48	60
HSK50E-FMB27-60	27	58	60
HSK50E-FMB32-60	32	78	60
HSK63E-FMB16-50	16	38	50
HSK63E-FMB22-60	22	48	60
HSK63E-FMB27-60	27	58	60
HSK63E-FMB32-60	32	78	60
HSK63E-FMB40-60	40	88	60

End Mill Holder DIN6359/1835B (Weldon)
侧固刀柄

Runout: 0.005 mm
Bore Tolerance: H5
Balancing: G2.5/25000 RPM
Usage: for clamping tools with straight shank and inclined flat DIN1835-B.

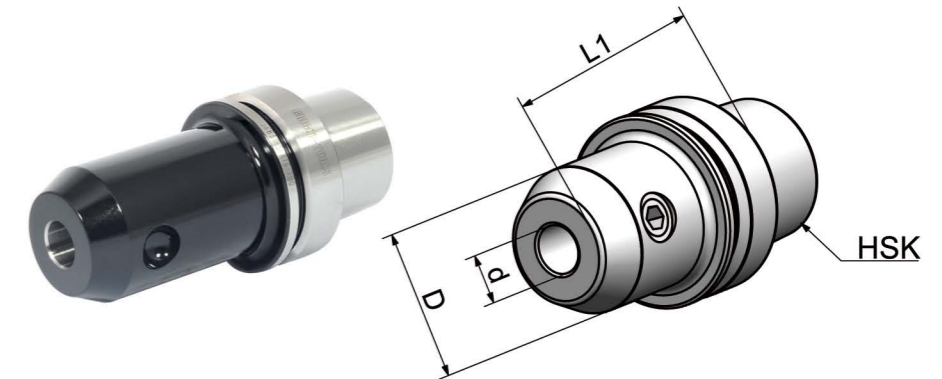


DIN 69893
ISO 12164

Size	d	D	L1
HSK32E-SLA06-60	6	25	60
HSK32E-SLA08-60	8	28	60
HSK32E-SLA10-65	10	35	65
HSK40E-SLA06-60	6	25	60
HSK40E-SLA08-60	8	28	60
HSK40E-SLA10-60	10	35	60
HSK40E-SLA12-70	12	42	70
HSK40E-SLA14-75	14	44	75
HSK40E-SLA16-75	16	48	75
HSK40E-SLA20-75	20	52	75
HSK50E-SLA06-65	6	25	65
HSK50E-SLA08-65	8	28	65
HSK50E-SLA10-65	10	35	65
HSK50E-SLA12-80	12	42	80
HSK50E-SLA14-80	14	44	80
HSK50E-SLA16-80	16	48	80
HSK50E-SLA18-80	18	50	80
HSK50E-SLA20-80	20	52	80
HSK50E-SLA20-100	20	52	100
HSK50E-SLA25-102	25	65	102

End Mill Holder DIN6359/1835B (Weldon)
侧固刀柄

Runout: 0.005 mm
Bore Tolerance: H5
Balancing: G2.5/25000 RPM
Usage: for clamping tools with straight shank and inclined flat DIN1835-B.

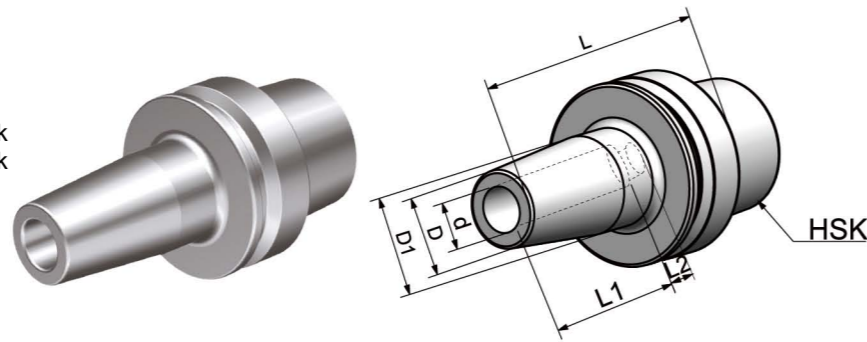


DIN 69893
ISO 12164

Size	d	D	L
HSK63E-SLA06-65	6	25	65
HSK63E-SLA08-65	8	28	65
HSK63E-SLA10-65	10	35	65
HSK63E-SLA12-80	12	42	80
HSK63E-SLA14-80	14	44	80
HSK63E-SLA16-80	16	48	80
HSK63E-SLA18-80	18	50	80
HSK63E-SLA20-80	20	52	80
HSK63E-SLA25-110	25	65	110
HSK63E-SLA32-110	32	72	110
HSK63E-SLA40-120	40	80	120

Shrink Fit Chuck 热缩刀柄

Runout: 0.003 mm
Blancing: G2.5/25000 RPM
Usage: Working with induction shrink machine for mounting straight shank tools.

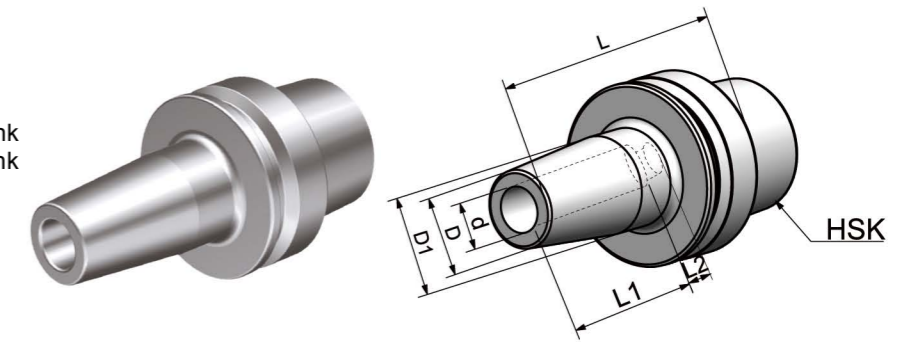


DIN 69893
ISO 12164

Size	d	D	D1	L	L1	L2
HSK25E-SF06-50	6	15	19	50	36	10
HSK32E-SF03-60	3	15	20	60	20	-
HSK32E-SF04-60	4	15	20	60	20	5
HSK32E-SF05-60	5	15	20	60	25	5
HSK32E-SF06-70	6	20	26	70	36	10
HSK32E-SF08-70	8	20	26	70	36	10
HSK32E-SF10-70	10	24	29	70	42	10
HSK32E-SF12-70	12	24	29	70	47	10
HSK40E-SF03-80	3	15	20	80	20	-
HSK40E-SF04-80	4	15	20	80	20	5
HSK40E-SF05-80	5	15	20	80	25	5
HSK40E-SF06-80	6	20	27	80	36	10
HSK40E-SF08-80	8	20	27	80	36	10
HSK40E-SF10-80	10	24	32	80	42	10
HSK40E-SF12-90	12	24	32	90	47	10
HSK40E-SF16-90	16	27	34	90	50	10

Shrink Fit Chuck 热缩刀柄

Runout: 0.003 mm
Blancing: G2.5/25000 RPM
Usage: Working with induction shrink machine for mounting straight shank tools.



DIN 69893
ISO 12164

Size	d	D	D1	L	L1	L2
HSK50E-SF03-80	3	15	20	80	20	-
HSK50E-SF04-80	4	15	20	80	20	5
HSK50E-SF05-80	5	15	20	80	20	5
HSK50E-SF06-80	6	20	27	80	36	10
HSK50E-SF08-80	8	20	27	80	36	10
HSK50E-SF10-85	10	24	32	85	42	10
HSK50E-SF12-90	12	24	32	90	47	10
HSK50E-SF14-90	14	27	34	90	47	10
HSK50E-SF16-95	16	27	34	95	50	10
HSK50E-SF18-95	18	33	42	95	50	10
HSK50E-SF20-100	20	33	42	100	52	10
HSK63E-SF06-90	6	20	27	90	36	10
HSK63E-SF08-90	8	20	27	90	36	10
HSK63E-SF10-90	10	24	32	90	41	10
HSK63E-SF12-90	12	24	32	90	47	10
HSK63E-SF14-90	14	27	34	90	47	10
HSK63E-SF16-95	16	27	34	95	50	10
HSK63E-SF18-95	18	33	42	95	50	10
HSK63E-SF20-100	20	33	42	100	52	10

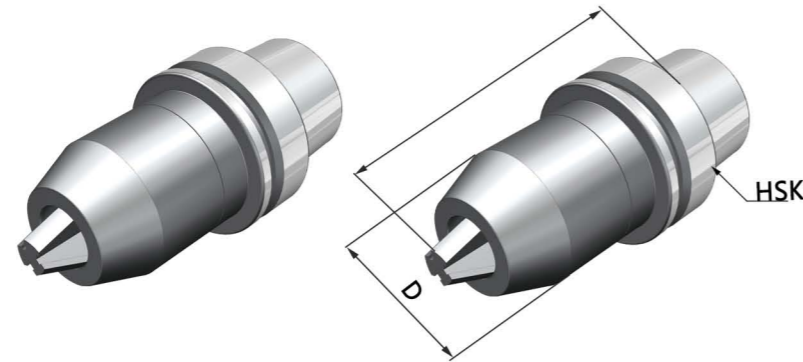
Precision Drill Chuck Holder 精密钻夹头刀柄



DIN 69893
ISO 12164

Advantages:

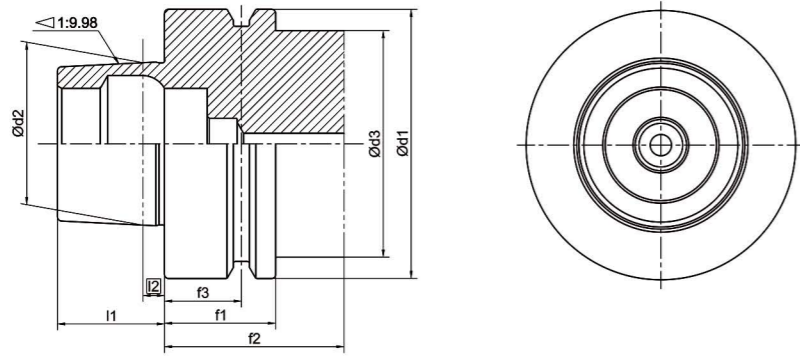
- 1) Runout: 0.03 mm;
- 2) Internal cooling;
- 3) Worm and gear design for better clamping force;
- 4) Use a hex key to lock easily.



Size	D	L	Capacity
HSK25E-CPU1.5-42	20	42	0.2-1.5
HSK32E-CPU1.5-50	20	50	0.2-1.5
HSK40E-CPU1.5-50	20	50	0.2-1.5
HSK25E-CPU3-42	20	42	1.5-3
HSK32E-CPU3-50	20	50	1.5-3
HSK40E-CPU3-50	20	50	1.5-3

HSK-F Taper Standard HSK-F 锥柄标准

DIN 69893
ISO 12164

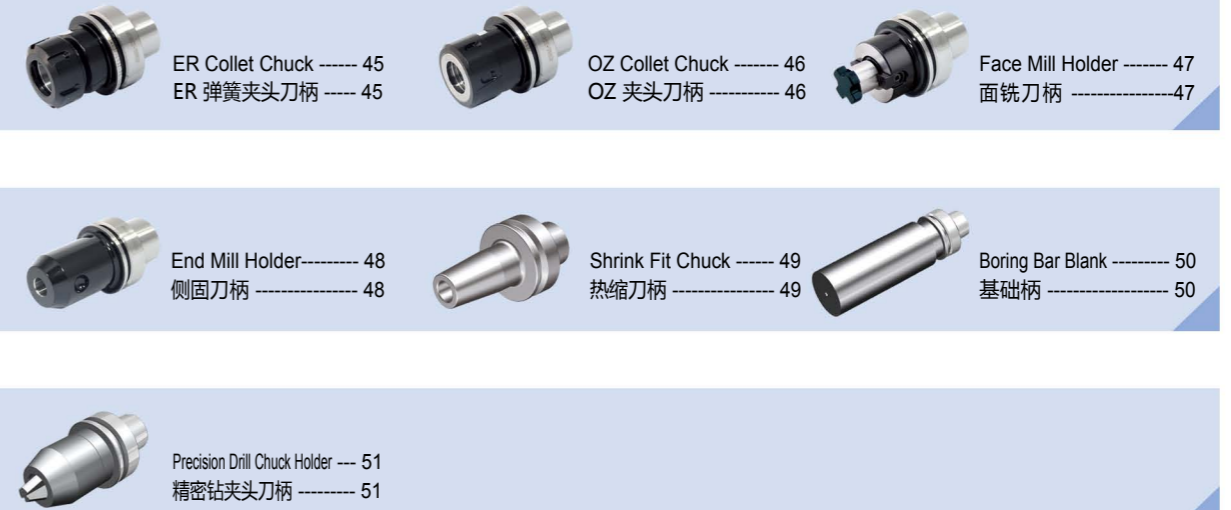


Size	d1	d2	d3	l1	l2	f1	f2	f3
HSK50F	50	30.007	42	20	4	26	42	18
HSK63F	63	38.009	53	25	5	26	42	18
HSK80F	80	48.010	68	32	6.3	26	42	18

Taper standard: DIN 69893; ISO 12164
Material: Alloyed case hardened steel
Surface Treatment: Blackening and Bright
Taper tolerance: <AT3
Hardness: HRC 58-62
Carbon depth: 0.8±0.2mm
Surface Roughness: Ra<0.005mm
Balancing: G6.3/15000; G2.5/25000



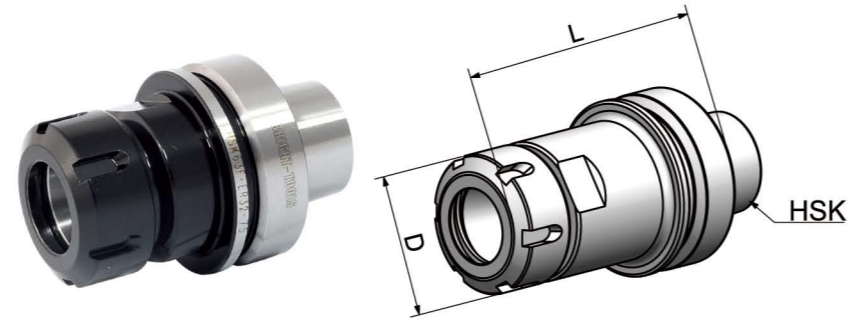
HSK-F



ER Collet Chuck DIN6499

ER 弹簧夹头刀柄

Runout: 0.003 mm
Balancing: G2.5/25000 RPM
Usage: for clamping tools with straight shank in collets DIN 6499.



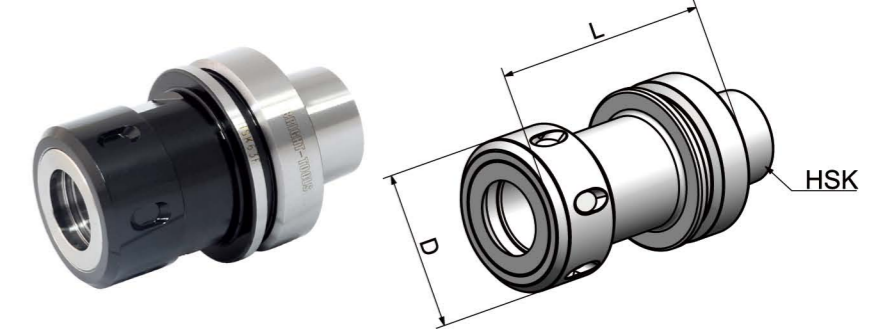
DIN 69893
 ISO 12164

Size	D	L	Capacity
HSK40F-ER16A-60	28	60	1-10
HSK40F-ER25-60	42	60	2-16
HSK50F-ER25-70	42	70	2-16
HSK50F-ER32-80	50	80	2-20
HSK50F-ER40-80	63	80	3-26
HSK63F-ER16A-60	28	60	1-10
HSK63F-ER25-70	42	70	2-16
HSK63F-ER32-75	50	75	2-20
HSK63F-ER40-80	63	80	3-26
HSK63F-ER16A-100	28	100	1-10
HSK63F-ER25-100	42	100	2-16
HSK63F-ER32-100	50	100	2-20
HSK63F-ER40-100	63	100	3-26

OZ Collet Chuck DIN6391

OZ 夹头刀柄

Runout: 0.005 mm
Balancing: G2.5/25000 RPM.
Usage: for clamping tools with straight shank in collets DIN 6388.



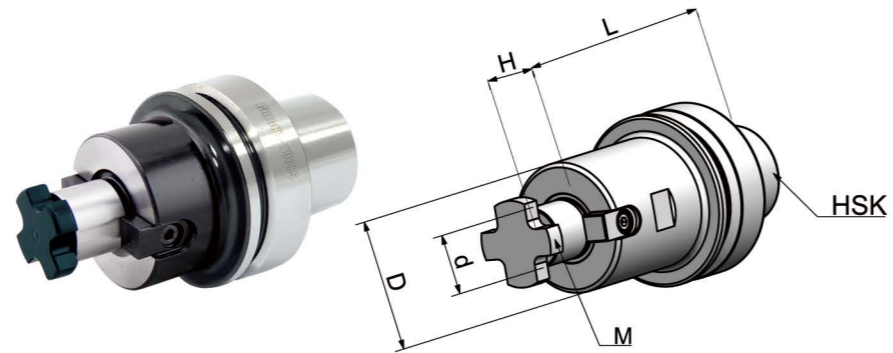
DIN 69893
 ISO 12164

Size	D	L	Capacity
HSK63F-OZ25-90	60	90	3-25

Face Mill Holder DIN6357

面铣刀柄

Runout: 0.005 mm
Balancing: G2.5/25000 RPM
Usage: for holding tools like shell mill cutters.



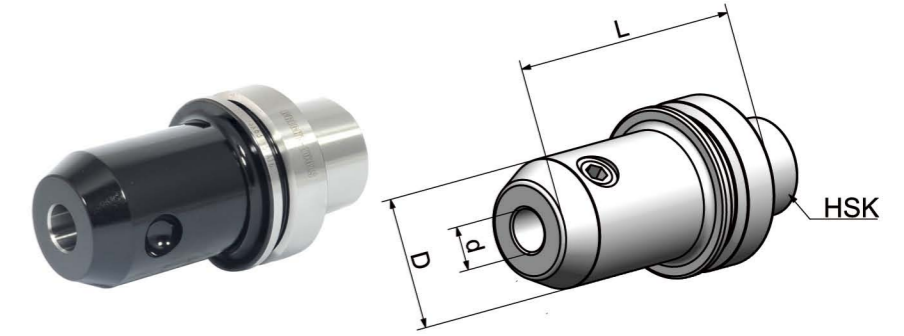
DIN 69893
ISO 12164

Size	d	D	L	H	M
HSK63F-FMB16-50	16	38	50	17	M8
HSK63F-FMB22-50	22	48	50	19	M10
HSK63F-FMB27-60	27	58	60	21	M12
HSK63F-FMB32-60	32	78	60	24	M16

End Mill Holder DIN6359/1835B (Weldon)

侧固刀柄

Runout: 0.005 mm
Bore Tolerance: H5
Balancing: G2.5/25000 RPM
Usage: for clamping tools with straight shank and inclined flat DIN1835-B.

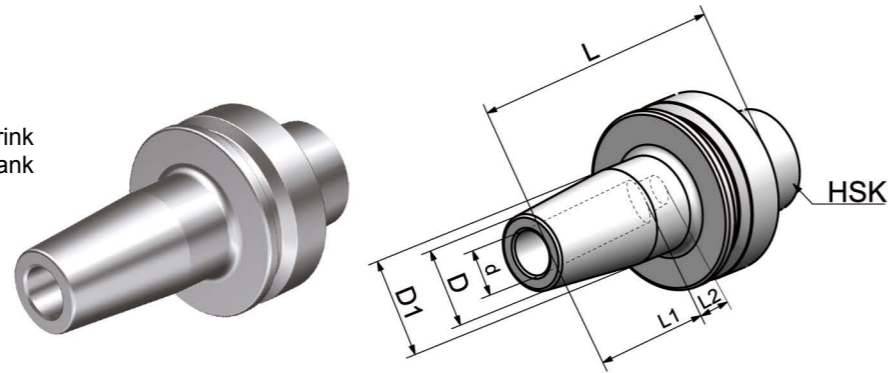


DIN 69893
ISO 12164

Size	d	D	L
HSK63F-SLA06-65	6	25	65
HSK63F-SLA08-65	8	28	65
HSK63F-SLA10-65	10	35	65
HSK63F-SLA12-80	12	42	80
HSK63F-SLA14-80	14	44	80
HSK63F-SLA16-80	16	48	80
HSK63F-SLA18-80	18	50	80
HSK63F-SLA20-80	20	52	80
HSK63F-SLA25-110	25	65	110
HSK63F-SLA32-110	32	72	110

Shrink Fit Chuck 热缩刀柄

Runout: 0.003 mm
Blancing: G2.5/25000 RPM
Usage: Working with induction shrink machine for mounting straight shank tools.

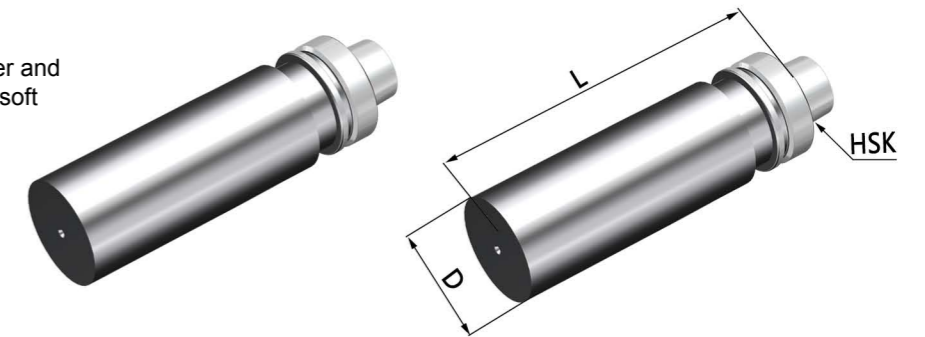


DIN 69893
ISO 12164

Size	d	D	D1	L	L1	L2
HSK63F-SF03-90	3	15	20	90	20	-
HSK63F-SF04-90	4	15	20	90	20	5
HSK63F-SF05-90	5	15	20	90	25	5
HSK63F-SF06-90	6	20	27	90	36	10
HSK63F-SF08-90	8	20	27	90	36	10
HSK63F-SF10-90	10	24	32	90	42	10
HSK63F-SF12-90	12	24	32	90	47	10
HSK63F-SF14-95	14	27	34	95	47	10
HSK63F-SF16-95	16	27	34	95	50	10
HSK63F-SF18-95	18	33	42	95	50	10
HSK63F-SF20-100	20	33	42	100	52	10
HSK63F-SF25-115	25	36	42	115	58	10

Boring Bar Blank 基础柄

Usage: used for special tools; taper and flange are hardened and grinded, soft blank side for later processing.



DIN 69893
ISO 12164

Size	D	L
HSK63F-63-100	63	100
HSK63F-63-200	63	200

Other sizes can be made by request.

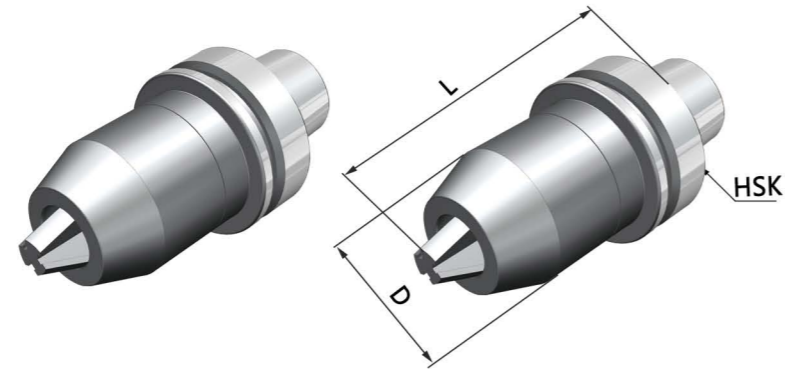
Precision Drill Chuck Holder 精密钻夹头刀柄



DIN 69893
ISO 12164

Advantages:

- 1) Runout: 0.03 mm;
- 2) Internal cooling;
- 3) Worm and gear design for better clamping force;
- 4) Use a hex key to lock easily.



Size	D	L	Capacity
HSK63F-CPU16-98	50	98	1-16

VDI



Bright-tools

VDI

DIN 69880
VDI Tool Holders

BRIGHT-TOOLS

Add: Chongde 5th Avenue, Dezhou, Shandong, China

Tel: +86-534-8127522/33/88; +86-534-2356966

Web: <http://www.bright-tools.com>

Email: sales@bright-tools.com

山东金杰机械有限公司
SHANDONG JINJIE MACHINERY CO., LTD

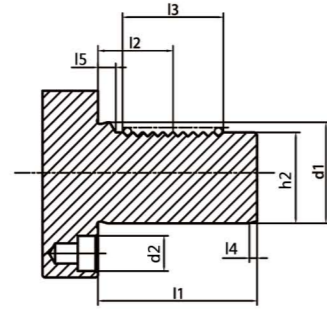
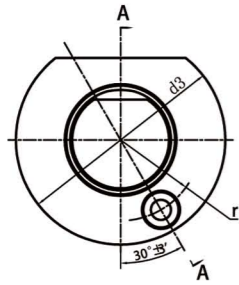
VDI

BRIGHT-TOOLS



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VDI Taper Standard VDI 锥柄标准

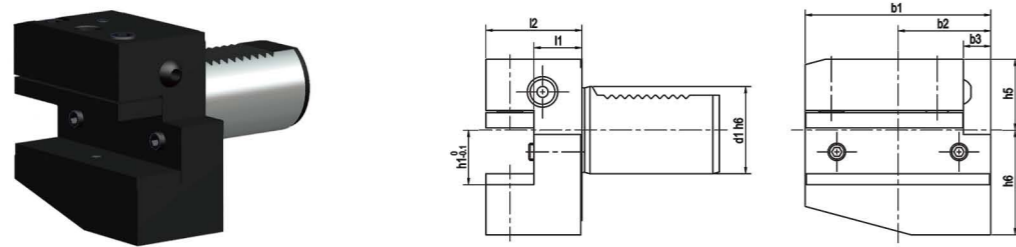
DIN 69880


d1 H6	h1 max	d2	d3	h2 ±0.1	r ±0.02	l1 max	l2 ±0.05	l3 min	l4 max	l5
16	12	8	40	15.0	14.5	32	12.7	16	2	3.5
20	16	10	50	18.0	18.0	40	21.7	24	2	7.0
25	16	10	58	23.5	21.0	48	21.7	24	2	7.0
30	20	14	68	27.0	25.0	55	29.7	40	2	7.0
40	25	14	83	36.0	32.0	63	29.7	40	3	7.0
50	32	16	98	45.0	37.0	78	35.7	48	3	8.0
60	32	16	123	55	48	94	43.7	56	4	10
80	40	20	158	72	65	124	49.7	80	4	10


VDI

	Radial Holder Form B1 --- 03 短型横向右刀夹 ----- 03		Radial Holder Form B2 ----- 04 短型横向左刀夹 ----- 04		Radial Holder Form B3 ----- 05 短型横向反切右刀夹 ----- 05
	Radial Holder Form B4 --- 06 短型横向反切左刀夹 ----- 06		Radial Holder Form B5 ----- 07 长型横向右刀夹 ----- 07		Radial Holder Form B6 ----- 08 长型横向左刀夹 ----- 08
	Radial Holder Form B7 --- 09 长型横向反切右刀夹 ----- 09		Radial Holder Form B8 ----- 10 长型横向反切左刀夹 ----- 10		Axial Holder Form C1 ----- 11 纵向右刀夹 ----- 11
	Axial Holder Form C2 ----- 12 纵向左刀夹 ----- 12		Axial Holder Form C3 ----- 13 纵向反切右刀夹 ----- 13		Axial Holder Form C4 ----- 14 纵向反切左刀夹 ----- 14
	Rectangular Holder Form D1 -- 15 多座刀夹 ----- 15		Rectangular Holder Form D2 --- 16 多座反切刀夹 ----- 16		Boring Holder Form E1 ----- 17 可转位浅孔钻刀夹 ----- 17
	Boring Holder Form E2 --- 20 镗孔刀夹 ----- 20		OZ Collet Chuck Form E3 -- 25 OZ 刀柄 ----- 25		ER Collet Chuck Form E4 --- 26 ER 刀柄 ----- 26
	Morse Taper Adapter Form F -- 27 带扁尾莫氏刀柄 ----- 27		Rectangular Blank Form A1 --- 28 方形基础柄 ----- 28		Round Blank Form ----- 29 圆形基础柄 ----- 29
	Cutting Off Tool Holder Right Height Adjustable ----- 30 短型横向切刀右刀夹 ----- 30		Cutting Off Tool Holder Left Height Adjustable ----- 31 短型横向切刀左刀夹 ----- 31		Cutting Off Tool Holder Inverted Right Height Adjustable ----- 32 短型横向切刀反切右刀夹 ----- 32
	Cutting Off Tool Holder Inverted Left Height Adjustable ----- 33 短型横向切刀反切左刀夹 ----- 33		Quick Change Tapping Chuck with Length Compensation - 34 弹性快换攻丝刀柄 ----- 34		Protection Plug Form Z2 --- 35 保护塞 ----- 35

Radial Holder Form B1 Right, Short 短型横向右刀夹

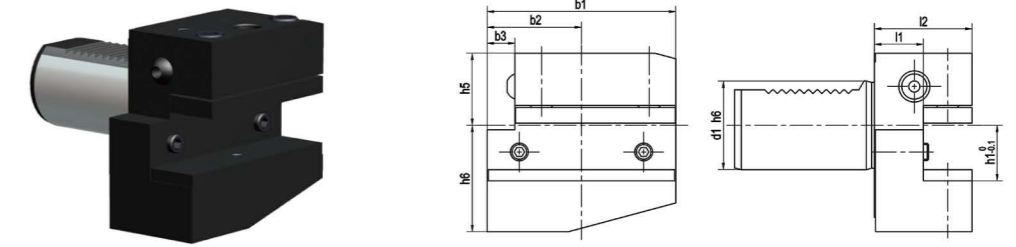
DIN 69880

Metric

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2
B1-16x12x24	16	42	23	5	12	20	22	13	24
B1-16x12x34	16	42	23	5	12	20	22	23	34
B1-20x16x30	20	55	30	7	16/12	25	30	16	30
B1-20x16x40	20	55	30	7	16/12	25	30	26	40
B1-25x16x30	25	55	30	7	16/12	25	30	16	30
B1-25x16x40	25	55	30	7	16/12	25	30	26	40
B1-30x20x40	30	70	35	10	20/16	28	38	22	40
B1-30x20x60	30	70	35	10	20/16	28	38	42	60
B1-40x25x44	40	85	42.5	12.5	25/20	32.5	48	22	44
B1-50x32x55	50	100	50	16	32/25	35	60	30	55
B1-60x32x60	60	125	62.5	16	32/25	42.5	62.5	30	60
B1-80x40x75	80	160	80	20	40/32	55	80	40	75

Inch

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2
B1-20x5/8"x30	20	55	30	7	5/8"	25	30	16	30
B1-30x3/4"x40	30	70	35	10	3/4"	28	38	22	40
B1-40x1"x44	40	85	42.5	12.5	1"	32.5	48	22	44
B1-50x1-1/4"x55	50	100	50	16	1-1/4"	35	60	30	55
B1-60x1-1/4"x60	60	125	62.5	16	1-1/4"	42.5	62.5	30	60

Radial Holder Form B2 Left, Short 短型横向左刀夹

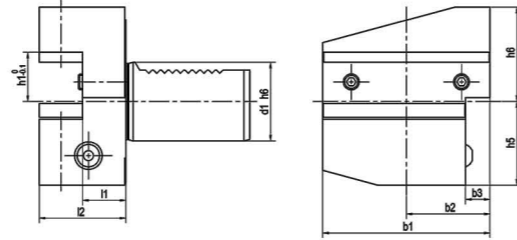
DIN 69880

Metric

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2
B2-16x12x24	16	42	23	5	12	20	22	13	24
B2-16x12x34	16	42	23	5	12	20	22	23	34
B2-20x16x30	20	55	30	7	16/12	25	30	16	30
B2-20x16x40	20	55	30	7	16/12	25	30	26	40
B2-25x16x30	25	55	30	7	16/12	25	30	16	30
B2-25x16x40	25	55	30	7	16/12	25	30	26	40
B2-30x20x40	30	70	35	10	20/16	28	38	22	40
B2-30x20x60	30	70	35	10	20/16	28	38	42	60
B2-40x25x44	40	85	42.5	12.5	25/20	32.5	48	22	44
B2-50x32x55	50	100	50	16	32/25	35	60	30	55
B2-60x32x60	60	125	62.5	16	32/25	42.5	62.5	30	60
B2-80x40x75	80	160	80	20	40/32	55	80	40	75

Inch

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2
B2-20x5/8"x30	20	55	30	7	5/8"	25	30	16	30
B2-30x3/4"x40	30	70	35	10	3/4"	28	38	22	40
B2-30x3/4"x100	30	70	35	10	3/4"	28	38	42	100
B2-40x1"x44	40	85	42.5	12.5	1"	32.5	48	22	44
B2-50x1-1/4"x55	50	100	50	16	1-1/4"	35	60	30	55
B2-60x1-1/4"x60	60	125	62.5	16	1-1/4"	42.5	62.5	30	60

Radial Holder Form B3 Inverted Right, Short 短型横向反切右刀夹

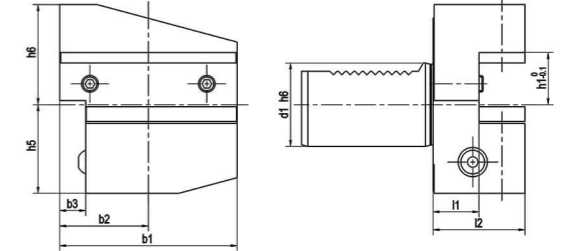
DIN 69880

Metric

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2
B3-16x12x24	16	42	23	5	12	20	22	13	24
B3-16x12x34	16	42	23	5	12	20	22	23	34
B3-20x16x30	20	55	30	7	16/12	25	30	16	30
B3-20x16x40	20	55	30	7	16/12	25	30	26	40
B3-25x16x30	25	55	30	7	16/12	25	30	16	30
B3-25x16x40	25	55	30	7	16/12	25	30	26	40
B3-30x20x40	30	70	35	10	20/16	35	38	22	40
B3-30x20x60	30	70	35	10	20/16	35	38	42	60
B3-40x25x44	40	85	42.5	12.5	25/20	42.5	48	22	44
B3-50x32x55	50	100	50	16	32/25	50	60	30	55
B3-60x32x60	60	125	62.5	16	32/25	62.5	62.5	30	60
B3-80x40x75	80	160	80	20	40/32	80	80	40	75

Inch

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2
B3-20x5/8"x30	20	55	30	7	5/8"	25	30	16	30
B3-30x3/4"x40	30	70	35	10	3/4"	35	38	22	40
B3-40x1"x44	40	85	42.5	12.5	1"	42.5	48	22	44
B3-50x1-1/4"x55	50	100	50	16	1-1/4"	50	60	30	55
B3-60x1-1/4"x60	60	125	62.5	16	1-1/4"	62.5	62.5	30	60

Radial Holder Form B4 Inverted Left, Short 短型横向反切左刀夹

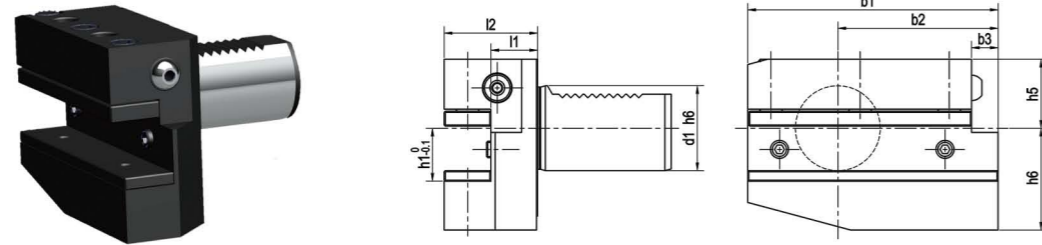
DIN 69880

Metric

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2
B4-16x12x24	16	42	23	5	12	20	22	13	24
B4-16x12x34	16	42	23	5	12	20	22	23	34
B4-20x16x30	20	55	30	7	16/12	25	30	16	30
B4-20x16x40	20	55	30	7	16/12	25	30	26	40
B4-25x16x30	25	55	30	7	16/12	25	30	16	30
B4-25x16x40	25	55	30	7	16/12	25	30	26	40
B4-30x20x40	30	70	35	10	20/16	35	38	22	40
B4-30x20x60	30	70	35	10	20/16	35	38	42	60
B4-40x25x44	40	85	42.5	12.5	25/20	42.5	48	22	44
B4-50x32x55	50	100	50	16	32/25	50	60	30	55
B4-60x32x60	60	125	62.5	16	32/25	62.5	62.5	30	60
B4-80x40x75	80	160	80	20	40/32	80	80	40	75

Inch

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2
B4-20x5/8"x30	20	55	30	7	5/8"	25	30	16	30
B4-30x3/4"x40	30	70	35	10	3/4"	35	38	22	40
B4-40x1"x44	40	85	42.5	12.5	1"	42.5	48	22	44
B4-50x1-1/4"x55	50	100	50	16	1-1/4"	50	60	30	55
B4-60x1-1/4"x60	60	125	62.5	16	1-1/4"	62.5	62.5	30	60

Radial Holder Form B5 Right, Long 长型横向右刀夹

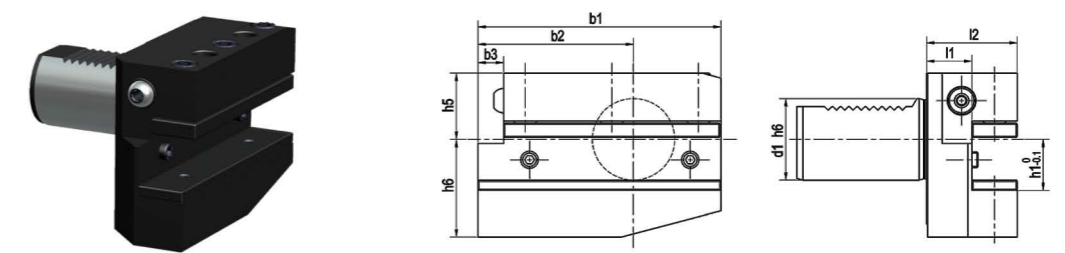
DIN 69880

Metric

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2
B5-16x12x24	16	58	39	5	12	20	22	13	24
B5-16x12x34	16	58	39	5	12	20	22	23	34
B5-20x16x30	20	75	50	7	16/12	25	30	16	30
B5-20x16x40	20	75	50	7	16/12	25	30	26	40
B5-25x16x30	25	75	50	7	16/12	25	30	16	30
B5-25x16x40	25	75	50	7	16/12	25	30	26	40
B5-30x20x40	30	100	65	10	20/16	28	38	22	40
B5-30x20x60	30	100	65	10	20/16	28	38	42	60
B5-40x25x44	40	118	75.5	12.5	25/20	32.5	48	22	44
B5-50x32x55	50	130	80	16	32/25	35	60	30	55
B5-60x32x60	60	145	82.5	16	32/25	42.5	62.5	30	60
B5-80x40x75	80	190	110	20	40/32	55	80	40	75

Inch

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2
B5-20x5/8"x30	20	75	50	7	5/8"	25	30	16	30
B5-30x3/4"x40	30	100	65	10	3/4"	28	38	22	40
B5-40x1"x44	40	118	75.5	12.5	1"	32.5	48	22	44
B5-50x1-1/4"x55	50	130	80	16	1-1/4"	35	60	30	55
B5-60x1-1/4"x60	60	145	82.5	16	1-1/4"	42.5	62.5	30	60

Radial Holder Form B6 Left, Long 长型横向左刀夹

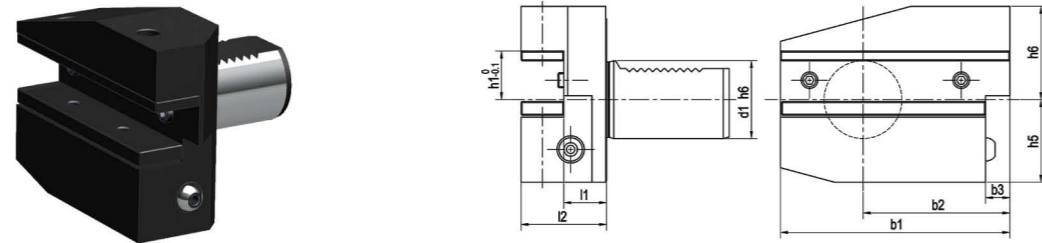
DIN 69880

Metric

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2
B6-16x12x24	16	58	39	5	12	20	22	13	24
B6-16x12x34	16	58	39	5	12	20	22	23	34
B6-20x16x30	20	75	50	7	16/12	25	30	16	30
B6-20x16x40	20	75	50	7	16/12	25	30	26	40
B6-25x16x30	25	75	50	7	16/12	25	30	16	30
B6-25x16x40	25	75	50	7	16/12	25	30	26	40
B6-30x20x40	30	100	65	10	20/16	28	38	22	40
B6-30x20x60	30	100	65	10	20/16	28	38	42	60
B6-40x25x44	40	118	75.5	12.5	25/20	32.5	48	22	44
B6-50x32x55	50	130	80	16	32/25	35	60	30	55
B6-60x32x60	60	145	82.5	16	32/25	42.5	62.5	30	60
B6-80x40x75	80	190	110	20	40/32	55	80	40	75

Inch

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2
B6-20x5/8"x30	20	75	50	7	5/8"	25	30	16	30
B6-30x3/4"x40	30	100	65	10	3/4"	28	38	22	40
B6-40x1"x44	40	118	75.5	12.5	1"	32.5	48	22	44
B6-50x1-1/4"x55	50	130	80	16	1-1/4"	35	60	30	55
B6-60x1-1/4"x60	60	145	82.5	16	1-1/4"	42.5	62.5	30	60

Radial Holder Form B7 Inverted Right, Long 长型横向反切右刀夹

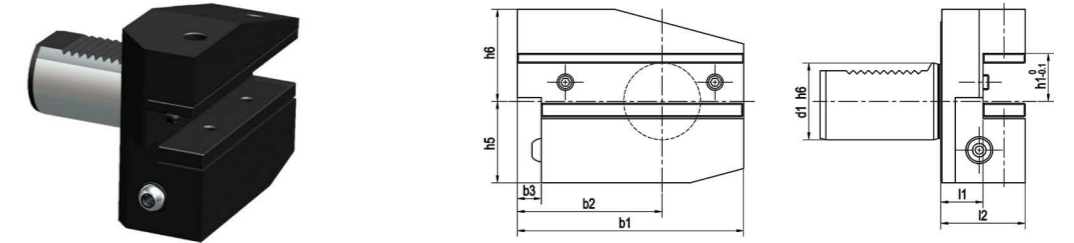
DIN 69880

Metric

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2
B7-16x12x24	16	58	39	5	12	20	22	13	24
B7-16x12x34	16	58	39	5	12	20	22	23	34
B7-20x16x30	20	75	50	7	16/12	25	30	16	30
B7-20x16x40	20	75	50	7	16/12	25	30	26	40
B7-25x16x30	25	75	50	7	16/12	25	30	16	30
B7-25x16x40	25	75	50	7	16/12	25	30	26	40
B7-30x20x40	30	100	65	10	20/16	35	38	22	40
B7-30x20x60	30	100	65	10	20/16	35	38	42	60
B7-40x25x44	40	118	75.5	12.5	25/20	42.5	48	22	44
B7-50x32x55	50	130	80	16	32/25	50	60	30	55
B7-60x32x60	60	145	82.5	16	32/25	62.5	62.5	30	60
B7-80x40x75	80	190	110	20	40/32	80	80	40	75

Inch

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2
B7-20x5/8"x30	20	75	50	7	5/8"	25	30	16	30
B7-30x3/4"x40	30	100	65	10	3/4"	35	38	22	40
B7-40x1"x44	40	118	75.5	12.5	1"	42.5	48	22	44
B7-50x1-1/4" x55	50	130	80	16	1-1/4"	50	60	30	55
B7-60x1-1/4" x60	60	145	82.5	16	1-1/4"	62.5	62.5	30	60

Radial Holder Form B8 Inverted Left, Long 长型横向反切左刀夹

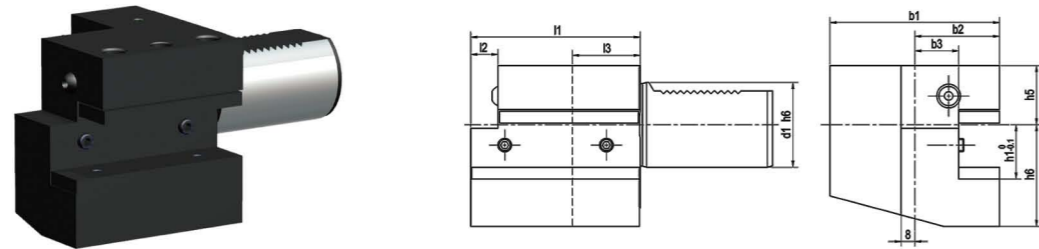
DIN 69880

Metric

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2
B8-16x12x24	16	58	39	5	12	20	22	13	24
B8-16x12x34	16	58	39	5	12	20	22	23	34
B8-20x16x30	20	75	50	7	16/12	25	30	16	30
B8-20x16x40	20	75	50	7	16/12	25	30	26	40
B8-25x16x30	25	75	50	7	16/12	25	30	16	30
B8-25x16x40	25	75	50	7	16/12	25	30	26	40
B8-30x20x40	30	100	65	10	20/16	35	38	22	40
B8-30x20x60	30	100	65	10	20/16	35	38	42	60
B8-40x25x44	40	118	75.5	12.5	25/20	42.5	48	22	44
B8-50x32x55	50	130	80	16	32/25	50	60	30	55
B8-60x32x60	60	145	82.5	16	32/25	62.5	62.5	30	60
B8-80x40x75	80	190	110	20	40/32	80	80	40	75

Inch

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2
B8-20x5/8"x30	20	75	50	7	5/8"	25	30	16	30
B8-30x3/4"x40	30	100	65	10	3/4"	35	38	22	40
B8-40x1"x44	40	118	75.5	12.5	1"	42.5	48	22	44
B8-50x1-1/4" x55	50	130	80	16	1-1/4"	50	60	30	55
B8-60x1-1/4" x60	60	145	82.5	16	1-1/4"	62.5	62.5	30	60

Axial Holder Form C1 Right 纵向右刀夹

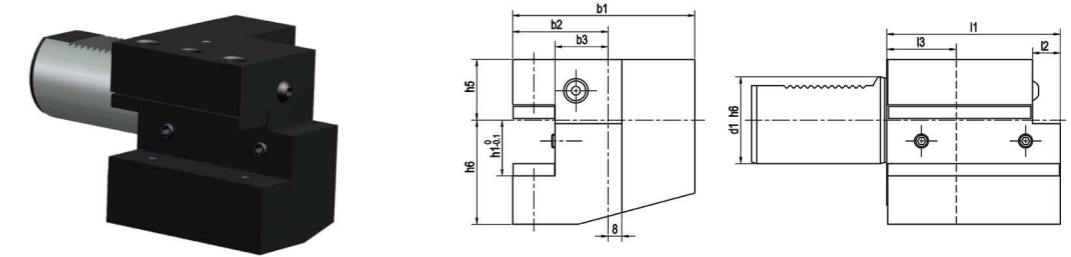
DIN 69880

Metric

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
C1-16x12x44	16	43	24	13	12	20	22	44	5	20
C1-20x16x50	20	65	40	26	16/12	25	30	50	-	30
C1-20x16x55	20	52	27	13	16/12	25	30	55	7	30
C1-25x16x55	25	58	33	19	16/12	25	30	55	7	20
C1-30x20x70	30	70	35	17	20/16	28	38	70	10	30
C1-40x25x85	40	85	42.5	21	25/20	32.5	48	85	12.5	30
C1-50x32x100	50	100	50	26	32/25	35	60	100	16	40
C1-60x32x125	60	125	62.5	33	32/25	42.5	62.5	125	16	40
C1-80x40x160	80	160	80	42	40/32	55	80	160	20	40

Inch

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
C1-20x5/8"x55	20	52	27	13	5/8"	25	30	55	7	30
C1-30x3/4"x70	30	70	35	17	3/4"	28	38	70	10	30
C1-40x1"x85	40	85	42.5	21	1"	32.5	48	85	12.5	30
C1-50x1-1/4" x100	50	100	50	26	1-1/4"	35	60	100	16	40
C1-60x1-1/4" x125	60	125	62.5	33	1-1/4"	42.5	62.5	125	16	40

Axial Holder Form C2 Left 纵向左刀夹

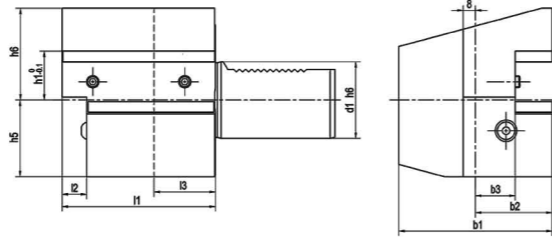
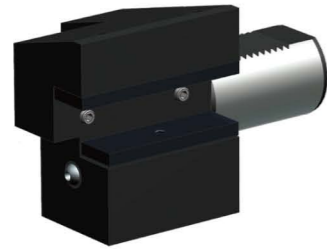
DIN 69880

Metric

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
C2-16x12x44	16	43	24	13	12	20	22	44	5	20
C2-20x16x50	20	65	40	26	16/12	25	30	50	-	30
C2-25x16x55	25	58	33	19	16/12	25	30	55	7	20
C2-30x20x70	30	76	41	23	20/16	28	38	70	10	30
C2-40x25x85	40	90	47.5	25.5	25/20	32.5	48	85	12.5	30
C2-50x32x100	50	105	55	30.5	32/25	35	60	100	16	40
C2-60x32x125	60	125	62.5	33	32/25	42.5	62.5	125	16	40
C2-80x40x160	80	160	78	42	40/32	55	80	160	20	40

Inch

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
C2-20x5/8"x55	20	65	40	26	5/8"	25	30	50	-	30
C2-30x3/4"x70	30	76	41	23	3/4"	28	38	70	10	30
C2-40x1"x85	40	90	47.5	25.5	1"	32.5	48	85	12.5	30
C2-50x1-1/4" x100	50	105	55	30.5	1-1/4"	35	60	100	16	40
C2-60x1-1/4" x125	60	125	62.5	33	1-1/4"	42.5	62.5	125	16	40

Axial Holder Form C3 Inverted Right 纵向反切右刀夹

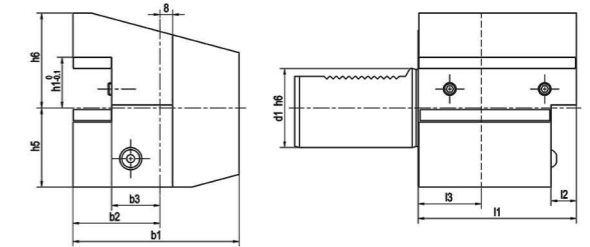
DIN 69880

Metric

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
C3-16x12x44	16	43	24	13	12	20	22	44	5	20
C3-20x16x50	20	65	40	26	16/12	25	30	50	-	30
C3-20x16x55	20	52	27	13	16/12	25	30	55	7	30
C3-25x16x55	25	58	33	19	16/12	25	30	55	7	20
C3-30x20x70	30	70	35	17	20/16	35	38	70	10	30
C3-40x25x85	40	85	42.5	21	25/20	42.5	48	85	12.5	30
C3-50x32x100	50	100	50	26	32/25	50	60	100	16	40
C3-60x32x125	60	125	62.5	33	32/25	62.5	62.5	125	16	40
C3-80x40x160	80	160	80	42	40/32	80	80	160	20	40

Inch

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
C3-20x5/8"x50	20	65	40	26	5/8"	25	30	50	-	30
C3-30x3/4"x70	30	70	35	17	3/4"	35	38	70	10	30
C3-40x1"x85	40	85	42.5	21	1"	42.5	48	85	12.5	30
C3-50x1-1/4"x100	50	100	50	26	1-1/4"	50	60	100	16	40
C3-60x1-1/4"x125	60	125	62.5	33	1-1/4"	62.5	62.5	125	16	40

Axial Holder Form C4 Inverted Left 纵向反切左刀夹

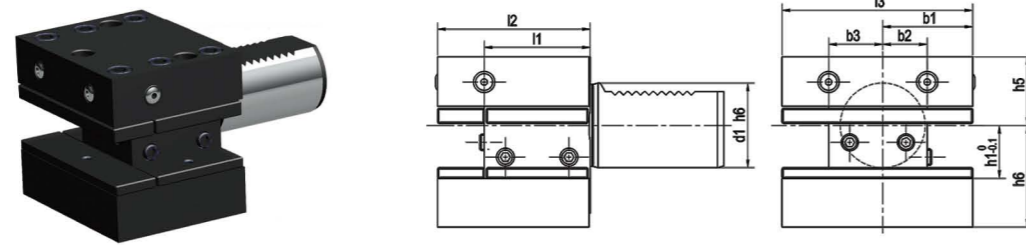
DIN 69880

Metric

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
C4-16x12x44	16	43	24	13	12	20	22	44	5	20
C4-20x16x50	20	65	40	26	16/12	25	30	50	-	30
C4-25x16x55	25	58	33	19	16/12	25	30	55	7	20
C4-30x20x70	30	76	41	23	20/16	35	38	70	10	30
C4-40x25x85	40	90	47.5	25.5	25/20	42.5	48	85	12.5	30
C4-50x32x100	50	105	55	30.5	32/25	50	60	100	16	40
C4-60x32x125	60	125	62.5	33	32/25	62.5	62.5	125	16	40
C4-80x40x160	80	160	78	42	40/32	80	80	160	20	40

Inch

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
C4-20x5/8"x50	20	65	40	26	5/8"	25	30	50	-	30
C4-30x3/4"x70	30	76	41	23	3/4"	35	38	70	10	30
C4-40x1"x85	40	90	47.5	25.5	1"	42.5	48	85	12.5	30
C4-50x1-1/4"x100	50	105	55	30.5	1-1/4"	50	60	100	16	40
C4-60x1-1/4"x125	60	125	62.5	33	1-1/4"	62.5	62.5	125	16	40

Rectangular Holder with Multiple Seats Form D1 多座刀夹

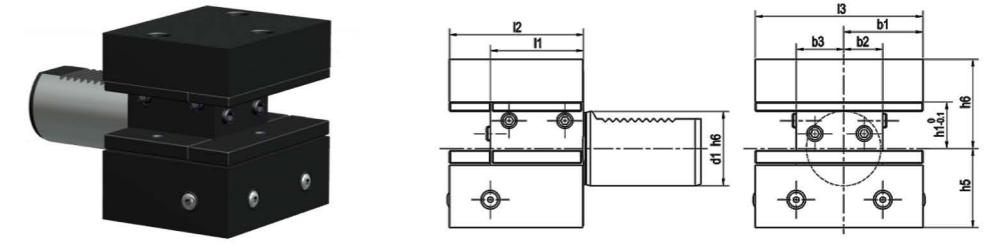
DIN 69880

Metric

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
D1-25x16x48	25	33	19	19	16/12	25	30	34	48	66
D1-30x20x60	30	35	17	23	20/16	28	38	42	60	76
D1-40x25x72	40	42.5	21	25.5	25/20	32.5	48	50	72	90
D1-50x32x85	50	50	26	30.5	32/25	35	60	60	85	105
D1-60x32x110	60	57.5	33	33	32/25	42.5	62.5	85	110	115
D1-80x40x140	80	76	42	42	40/32	55	80	105	140	152

Inch

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
D1-30x3/4"x60	30	35	17	23	3/4"	28	38	42	60	76
D1-40x1"x72	40	42.5	21	25.5	1"	32.5	48	50	72	90
D1-50x1-1/4" x85	50	50	26	30.5	1-1/4"	35	60	60	85	105
D1-60x1-1/4" x110	60	57.5	33	33	1-1/4"	42.5	62.5	85	110	115

Rectangular Holder with Multiple Seats Form D2 Inverted 多座反切刀夹

DIN 69880

Metric

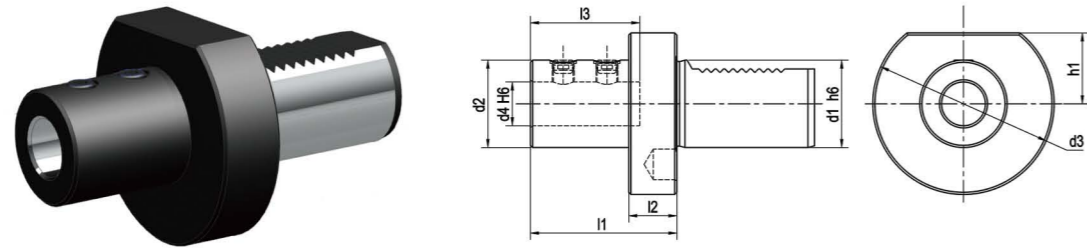
Size	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
D2-25x16x48	25	33	19	19	16/12	25	30	34	48	66
D2-30x20x60	30	35	17	23	20/16	35	38	42	60	76
D2-40x25x72	40	42.5	21	25.5	25/20	42.5	48	50	72	90
D2-50x32x85	50	50	26	30.5	32/25	50	60	60	85	105
D2-60x32x110	60	57.5	33	33	32/25	62.5	62.5	85	110	115
D2-80x40x140	80	76	42	42	40/32	80	80	105	140	152

Inch

Size	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
D2-30x3/4"x60	30	35	17	23	3/4"	35	38	42	60	76
D2-40x1"x72	40	42.5	21	25.5	1"	42.5	48	50	72	90
D2-50x1-1/4" x85	50	50	26	30.5	1-1/4"	50	60	60	85	105
D2-60x1-1/4" x110	60	57.5	33	33	1-1/4"	62.5	62.5	85	110	115

Boring Holder for Indexable Insert Drill Form E1
可转位浅孔钻刀夹

DIN 69880

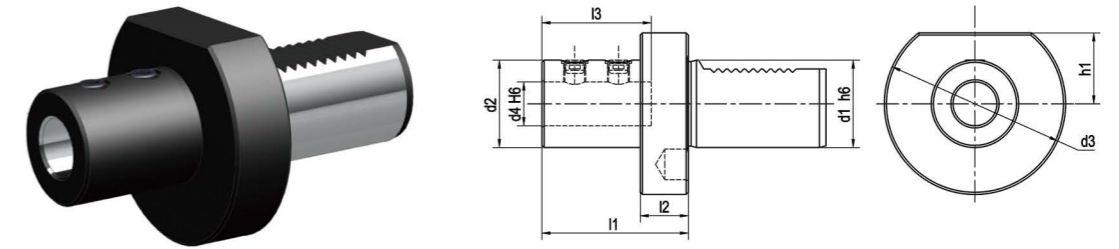


Metric

Size	d1	d2	d3	d4	h1	l1	l2	l3
E1-20x16	20	36	50	16	-	66	18	54
E1-20x20	20	40	50	20	-	67	18	54
E1-20x25	20	45	50	25	-	71	18	58
E1-30x16	30	36	68	16	28	66	22	54
E1-30x20	30	40	68	20	28	67	22	54
E1-30x25	30	45	68	25	28	71	22	58
E1-30x32	30	52	68	32	28	75	22	61
E1-30x40	30	65	68	40	28	90	22	72
E1-40x16	40	36	83	16	32.5	66	22	54
E1-40x20	40	40	83	20	32.5	67	22	54
E1-40x25	40	45	83	25	32.5	75	22	59
E1-40x32	40	52	83	32	32.5	75	22	61
E1-40x40	40	65	83	40	32.5	90	22	73
E1-40x50	40	70	83	50	32.5	100	22	83

Boring Holder for Indexable Insert Drill Form E1
可转位浅孔钻刀夹

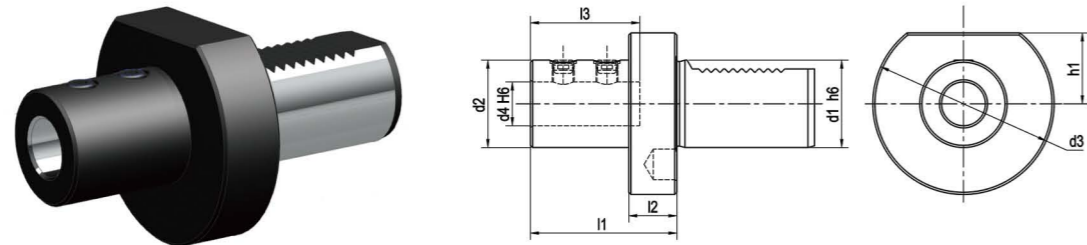
DIN 69880



Metric

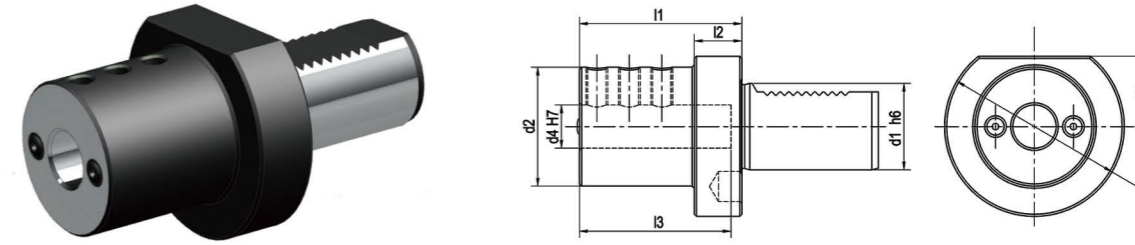
Size	d1	d2	d3	d4	h1	l1	l2	l3
E1-50x16	50	36	98	16	35	67	30	54
E1-50x20	50	40	98	20	35	67	30	54
E1-50x25	50	45	98	25	35	80	30	59
E1-50x32	50	52	98	32	35	80	30	63
E1-50x40	50	65	98	40	35	90	30	73
E1-50x50	50	75	98	50	35	100	30	83
E1-60x16	60	36	123	16	42.5	80	30	54
E1-60x20	60	40	123	20	42.5	80	30	54
E1-60x25	60	45	123	25	42.5	80	30	59
E1-60x32	60	52	123	32	42.5	80	30	63
E1-60x40	60	65	123	40	42.5	90	30	73
E1-60x50	60	75	123	50	42.5	100	30	83
E1-80x20	80	40	158	20	55	80	30	54
E1-80x25	80	45	158	25	55	80	30	59
E1-80x32	80	52	158	32	55	80	30	63
E1-80x40	80	65	158	40	55	90	30	73
E1-80x50	80	75	158	50	55	100	30	83

Boring Holder for Indexable Insert Drill Form E1 可转位浅孔钻刀夹

DIN 69880

Inch

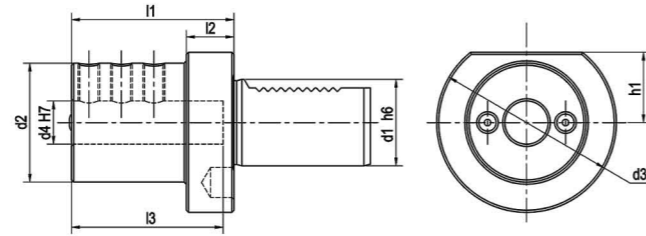
Size	d1	d2	d3	d4	h1	l1	l2	l3
E1-20x3/4"	20	40	50	3/4"	-	67	18	54
E1-20x1"	20	45	50	1"	-	71	18	58
E1-30x3/4"	30	40	68	3/4"	28	67	22	54
E1-30x1"	30	45	68	1"	28	71	22	58
E1-30x1-1/4"	30	52	68	1-1/4"	28	75	22	61
E1-40x5/8"	40	36	83	5/8"	32.5	66	22	54
E1-40x3/4"	40	40	83	3/4"	32.5	67	22	54
E1-40x1"	40	45	83	1"	32.5	75	22	59
E1-40x1-1/4"	40	52	83	1-1/4"	32.5	75	22	61
E1-40x1-1/2"	40	65	83	1-1/2"	32.5	90	22	73
E1-50x3/4"	50	40	98	3/4"	35	67	30	54
E1-50x1"	50	45	98	1"	35	80	30	59
E1-50x1-1/4"	50	52	98	1-1/4"	35	80	30	63
E1-50x1-1/2"	50	65	98	1-1/2"	35	90	30	73
E1-50x2"	50	75	98	2"	35	100	30	83

Boring Holder Form E2 镗孔刀夹

DIN 69880

Metric

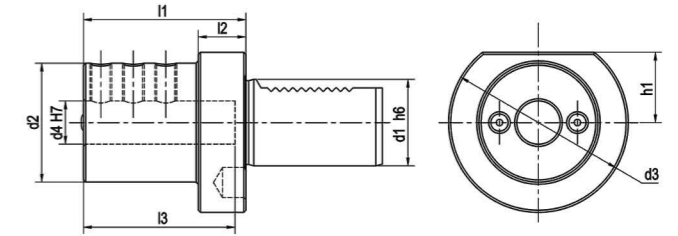
Size	d1	d2	d3	d4	h1	l1	l2	l3
E2-16x6	16	32	40	6	18	44	13	34
E2-16x8	16	32	40	8	18	44	13	34
E2-16x10	16	32	40	10	18	44	13	34
E2-16x12	16	40	40	12	18	44	13	34
E2-16x16	16	40	40	16	18	44	13	34
E2-20x6	20	40	50	6	23	50	18	42
E2-20x8	20	40	50	8	23	50	18	42
E2-20x10	20	40	50	10	23	50	18	42
E2-20x12	20	40	50	12	23	50	18	42
E2-20x16	20	42	50	16	23	50	18	42
E2-20x20	20	49	50	20	23	50	18	42
E2-20x25	20	49	50	25	23	60	18	52
E2-25x8	25	40	58	8	25	50	18	41
E2-25x10	25	40	58	10	25	50	18	41
E2-25x12	25	40	58	12	25	50	18	41
E2-25x16	25	40	58	16	25	50	18	41
E2-25x20	25	58	58	20	25	50	18	41
E2-25x25	25	58	58	25	25	60	18	51
E2-25x32	25	58	58	32	25	75	18	62

Boring Holder Form E2 镗孔刀夹

DIN 69880

Metric

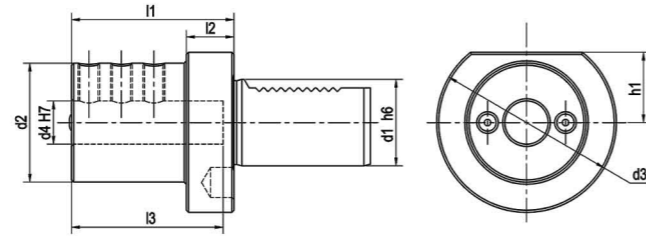
Size	d1	d2	d3	d4	h1	l1	l2	l3
E2-30x6	30	55	68	6	28	60	22	43
E2-30x8	30	55	68	8	28	60	22	43
E2-30x10	30	55	68	10	28	60	22	43
E2-30x12	30	55	68	12	28	60	22	43
E2-30x16	30	55	68	16	28	60	22	55
E2-30x20	30	55	68	20	28	60	22	54
E2-30x25	30	55	68	25	28	60	22	54
E2-30x30	30	67	68	30	28	75	22	61
E2-30x32	30	67	68	32	28	75	22	61
E2-40x8	40	55	83	8	32.5	75	22	43
E2-40x10	40	55	83	10	32.5	75	22	43
E2-40x12	40	55	83	12	32.5	75	22	58
E2-40x16	40	55	83	16	32.5	75	22	61
E2-40x20	40	55	83	20	32.5	75	22	61
E2-40x25	40	55	83	25	32.5	75	22	61
E2-40x30	40	82	83	30	32.5	75	22	61
E2-40x32	40	82	83	32	32.5	75	22	61
E2-40x40	40	82	83	40	32.5	90	22	76
E2-50x12	50	68	98	12	35	90	30	71
E2-50x16	50	68	98	16	35	90	30	76
E2-50x20	50	68	98	20	35	90	30	76
E2-50x25	50	68	98	25	35	90	30	76
E2-50x30	50	69	98	30	35	90	30	76
E2-50x32	50	69	98	32	35	90	30	76
E2-50x40	50	98	98	40	35	90	-	76
E2-50x50	50	98	98	50	35	100	-	86

Boring Holder Form E2 镗孔刀夹

DIN 69880

Metric

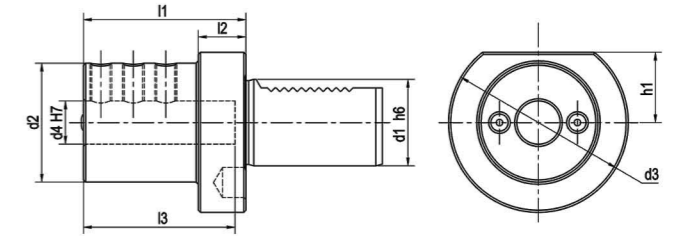
Size	d1	d2	d3	d4	h1	l1	l2	l3
E2-60x16	60	68	123	16	42.5	90	30	76
E2-60x20	60	68	123	20	42.5	90	30	76
E2-60x25	60	68	123	25	42.5	90	30	76
E2-60x30	60	68	123	30	42.5	90	30	76
E2-60x32	60	68	123	32	42.5	90	30	76
E2-60x40	60	98	123	40	42.5	90	30	76
E2-60x50	60	98	123	50	42.5	100	30	86
E2-80x20	80	68	158	20	55	100	30	86
E2-80x25	80	68	158	25	55	100	30	86
E2-80x32	80	68	158	32	55	100	30	86
E2-80x40	80	98	158	40	55	100	30	86
E2-80x50	80	98	158	50	55	100	30	92
E2-80x60	80	98	158	60	55	100	30	92

Boring Holder Form E2 镗孔刀夹

DIN 69880

Inch

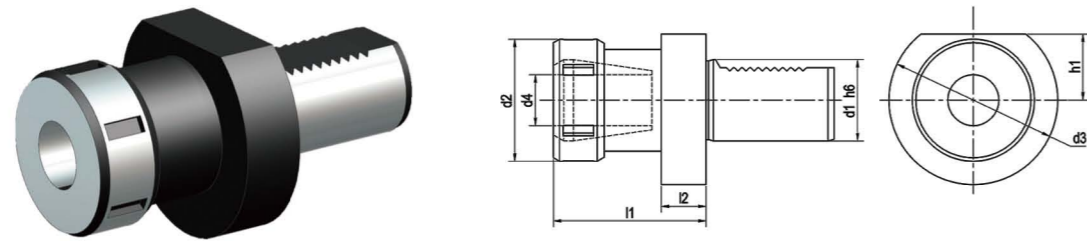
Size	d1	d2	d3	d4	h1	l1	l2	l3
E2-20x5/16"	20	40	50	5/16"	23	50	18	42
E2-20x3/8"	20	40	50	3/8"	23	50	18	42
E2-20x1/2"	20	40	50	1/2"	23	50	18	42
E2-20x5/8"	20	42	50	5/8"	23	50	18	42
E2-20x3/4"	20	49	50	3/4"	23	50	18	42
E2-20x1"	20	49	50	1"	23	60	18	52
E2-30x5/16"	30	55	68	5/16"	28	60	22	43
E2-30x3/8"	30	55	68	3/8"	28	60	22	43
E2-30x1/2"	30	55	68	1/2"	28	60	22	43
E2-30x5/8"	30	55	68	5/8"	28	60	22	55
E2-30x3/4"	30	55	68	3/4"	28	60	22	54
E2-30x1"	30	55	68	1"	28	60	22	54
E2-30x1-1/4"	30	67	68	1-1/4"	28	75	22	61
E2-40x3/8"	40	55	83	3/8"	32.5	75	22	43
E2-40x1/2"	40	55	83	1/2"	32.5	75	22	58
E2-40x5/8"	40	55	83	5/8"	32.5	75	22	61
E2-40x3/4"	40	55	83	3/4"	32.5	75	22	61
E2-40x1"	40	55	83	1"	32.5	75	22	61
E2-40x1-1/4"	40	82	83	1-1/4"	32.5	75	22	61
E2-40x1-1/2"	40	82	83	1-1/2"	32.5	90	22	76

Boring Holder Form E2 镗孔刀夹

DIN 69880

Inch

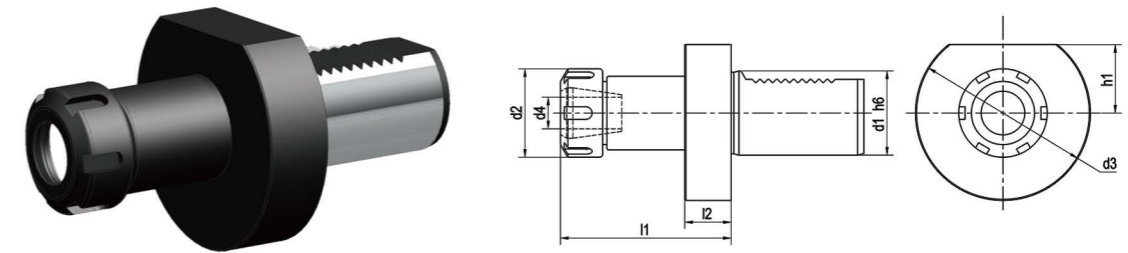
Size	d1	d2	d3	d4	h1	l1	l2	l3
E2-50x1/2"	50	68	98	1/2"	35	90	30	71
E2-50x5/8"	50	68	98	5/8"	35	90	30	76
E2-50x3/4"	50	68	98	3/4"	35	90	30	76
E2-50x1"	50	68	98	1"	35	90	30	76
E2-50x1-1/4"	50	69	98	1-1/4"	35	90	30	76
E2-50x1-1/2"	50	98	98	1-1/2"	35	90	-	76
E2-50x2"	50	98	98	2"	35	100	-	86
E2-60x5/8"	60	68	123	5/8"	42.5	90	30	76
E2-60x3/4"	60	68	123	3/4"	42.5	90	30	76
E2-60x1"	60	68	123	1"	42.5	90	30	76
E2-60x1-1/4"	60	68	123	1-1/4"	42.5	90	30	76
E2-60x1-1/2"	60	98	123	1-1/2"	42.5	90	30	76
E2-60x2"	60	98	123	2"	42.5	100	30	86

OZ Collet Chuck Form E3 OZ 夹头刀柄

DIN 69880


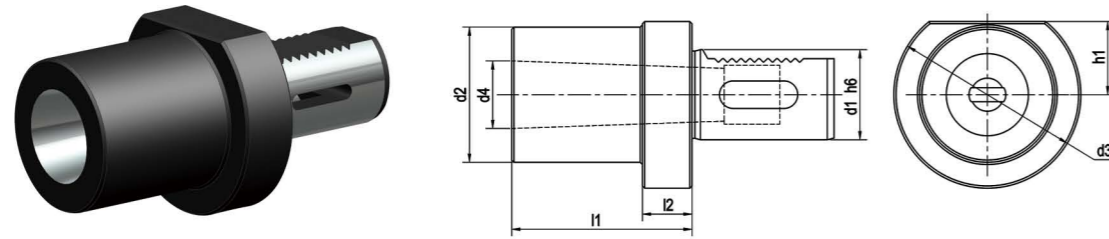
Size	Description	d1	d2	d3	d4	h1	l1	l2
E3-16x16	VDI16-OZ16-57	16	43	40	2-16	-	65	13
E3-20x16	VDI20-OZ16-57	20	43	50	2-16	-	57	18
E3-20x20	VDI20-OZ20-62	20	52	50	2-20	-	62	18
E3-25x16	VDI25-OZ16-57	25	43	58	2-16	25	57	18
E3-25x20	VDI25-OZ20-62	25	52	58	2-20	25	62	18
E3-30x16	VDI30-OZ16-57	30	43	68	2-16	28	57	22
E3-30x20	VDI30-OZ20-62	30	52	68	2-20	28	62	22
E3-30x25	VDI30-OZ25-75	30	60	68	2-25	28	75	22
E3-30x32	VDI30-OZ32-90	30	72	68	2-32	28	90	22
E3-40x16	VDI40-OZ16-57	40	43	83	2-16	32.5	57	22
E3-40x20	VDI40-OZ20-62	40	52	83	2-20	32.5	62	22
E3-40x25	VDI40-OZ25-75	40	60	83	2-25	32.5	75	22
E3-40x32	VDI40-OZ32-90	40	72	83	4-32	32.5	90	22
E3-50x20	VDI50-OZ20-70	50	52	98	2-20	35	70	30
E3-50x25	VDI50-OZ25-75	50	60	98	2-25	35	75	30
E3-50x32	VDI50-OZ32-90	50	72	98	4-32	35	90	30
E3-60x25	VDI60-OZ25-75	60	60	123	2-25	42.5	75	30
E3-60x32	VDI60-OZ32-90	60	72	123	4-32	42.5	90	30
E3-80x25	VDI80-OZ25-85	80	60	158	2-25	55	85	40
E3-80x32	VDI80-OZ32-95	80	72	158	4-32	55	95	40

ER Collet Chuck Form E4 ER 夹头刀柄

DIN 69880


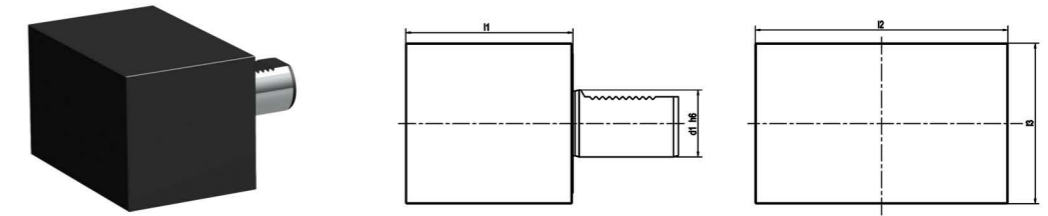
Size	Description	d1	d2	d3	d4	h1	l1	l2
E4-16x16	VDI16-ER16-44	16	32	40	1-10	18	40	13
E4-16x20	VDI16-ER20-44	16	35	40	1-13	18	44	13
E4-20x16	VDI20-ER16-44	20	32	50	1-10	-	40	18
E4-20x20	VDI20-ER20-59	20	35	50	1-13	-	59	18
E4-20x25	VDI20-ER25-65	20	42	50	2-16	-	54	18
E4-20x32	VDI20-ER32-67	20	50	50	2-20	-	67	18
E4-25x16	VDI25-ER16-44	25	32	58	1-10	25	44	18
E4-25x25	VDI25-ER25-58	25	42	58	2-16	25	57	18
E4-25x32	VDI25-ER32-63	25	50	58	2-20	25	62	18
E4-30x16	VDI30-ER16-48	30	32	68	1-10	28	48	22
E4-30x20	VDI30-ER20-59	30	35	68	1-13	28	59	22
E4-30x25	VDI30-ER25-57	30	42	68	2-16	28	57	22
E4-30x32	VDI30-ER32-78	30	50	68	2-20	28	62	22
E4-30x40	VDI30-ER40-80	30	63	68	3-30	28	70	22
E4-40x20	VDI40-ER20-59	40	35	83	1-13	32.5	59	22
E4-40x25	VDI40-ER25-57	40	42	83	2-16	32.5	70	22
E4-40x32	VDI40-ER32-78	40	50	83	2-20	32.5	84	22
E4-40x40	VDI40-ER40-80	40	63	83	3-30	32.5	75	22
E4-50x25	VDI50-ER25-67	50	42	98	2-16	35	67	30
E4-50x32	VDI50-ER32-92	50	50	98	2-20	35	84	30
E4-50x40	VDI50-ER40-80	50	63	98	3-30	35	90	30
E4-60x32	VDI60-ER32-78	60	50	123	2-20	42.5	78	30
E4-60x40	VDI60-ER40-80	60	63	123	3-30	42.5	75	30
E4-80x40	VDI80-ER40-100	80	63	158	3-30	55	100	40

Morse Taper Adapter Form F 带扁尾莫氏刀柄

DIN 69880


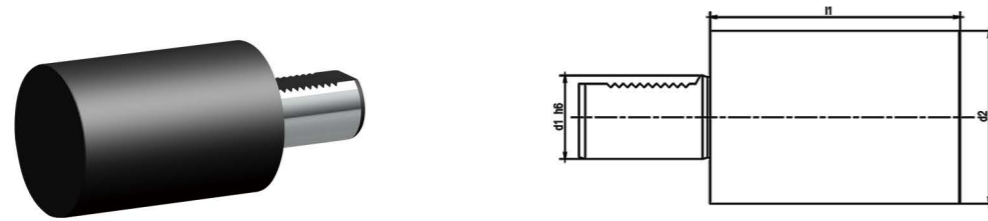
Size	d1	d2	d3	MK	d4	h1	l1	l2
F30-MKD1	30	-	68	1	12.065	28	27	-
F30-MKD2	30	55	68	2	17.78	28	36	27
F30-MKD3	30	55	68	3	23.825	28	66	41
F40-MKD1	40	55	83	1	12.065	32.5	36	22
F40-MKD2	40	55	83	2	17.78	32.5	36	22
F40-MKD3	40	58	83	3	23.825	32.5	50	22
F40-MKD4	40	68	83	4	31.267	32.5	80	22
F50-MKD2	50	55	98	2	17.78	35	36	30
F50-MKD3	50	58	98	3	23.825	35	45	30
F50-MKD4	50	68	98	4	31.267	35	55	30
F50-MKD5	50	75	98	5	44.399	35	68	30
F60-MKD2	60	55	123	2	17.78	42.5	35	30
F60-MKD3	60	58	123	3	23.825	42.5	36	30
F60-MKD4	60	68	123	4	31.267	42.5	50	30
F60-MKD5	60	98	123	5	44.399	42.5	81	30

Rectangular Soft Blank Form A1 方形基础柄

DIN 69880


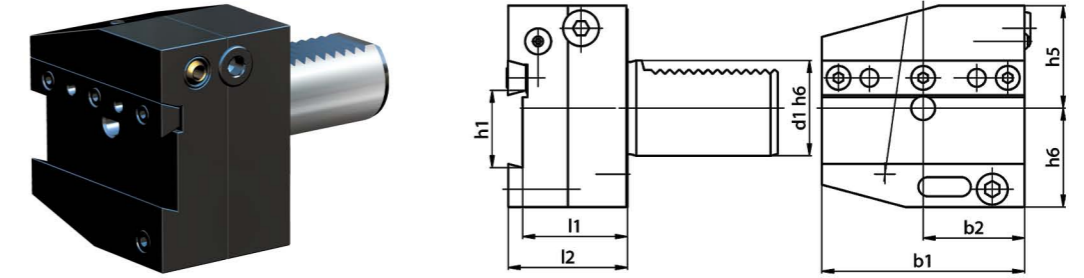
Size	d1	l1	l2	l3
A1-16x44	16	44	78	44
A1-20x65	20	65	100	60
A1-25x75	25	75	100	60
A1-30x85	30	85	130	76
A1-40x100	40	100	151	96
A1-50x125	50	125	160	120
A1-60x160	60	160	165	125
A1-80x200	80	200	220	160

Round Soft Blank Form A2 圆形基础柄

DIN 69880


Size	d1	d2	l1
A2-16x60	16	40	60
A2-20x70	20	50	70
A2-25x80	25	58	80
A2-25x200	25	58	200
A2-30x100	30	68	100
A2-30x240	30	68	240
A2-40x120	40	83	120
A2-40x320	40	83	320
A2-50x135	50	98	135
A2-50x400	50	98	400
A2-60x150	60	123	150
A2-60x480	60	123	480
A2-80x500	80	158	500

Cutting Off Tool Holder Right Height Adjustable 短型横向切刀右刀夹

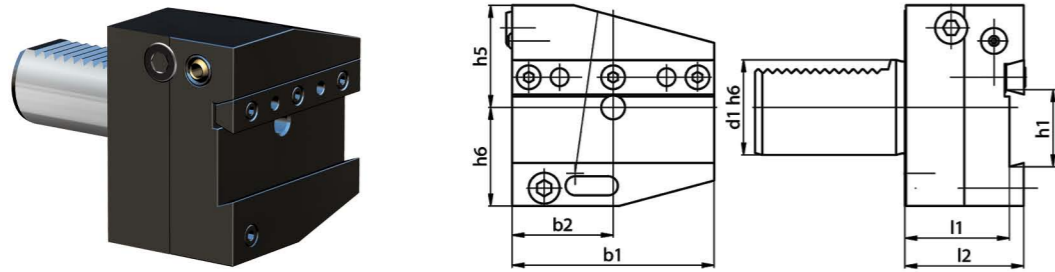
DIN 69880


Size	d1	b1	b2	h1	h5	h6	l1	l2
AR2026	20	60	30	26	28	36	44	50
AR2526	25	60	30	26	28	36	44	50
AR3026	30	70	35	26	32	39	44	50
AR4026	40	85	42.5	26	43	41.5	44	50
AR4032	40	85	42.5	32	43	41.5	44	50
AR5026	50	100	50	26	43	45	44	50
AR5032	50	100	50	32	43	45	44	50
AR6032	60	125	62.5	32	48	55	44	50

Cutting Off Tool Holder Left Height Adjustable

DIN 69880

短型横向切刀左刀夹

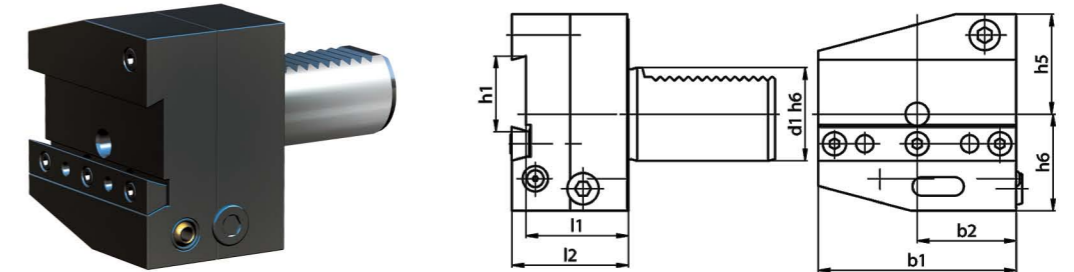


Size	d1	b1	b2	h1	h5	h6	l1	l2
AL2026	20	60	30	26	28	36	44	50
AL2526	25	60	30	26	32	36	44	50
AL3026	30	70	35	26	32	39	44	50
AL4026	40	85	42.5	26	43	41.5	44	50
AL4032	40	85	42.5	32	43	41.5	44	50
AL5026	50	100	50	26	43	45	44	50
AL5032	50	100	50	32	43	45	44	50
AL6032	60	125	62.5	32	48	55	44	50

Cutting Off Tool Holder Inverted Right Height Adjustable

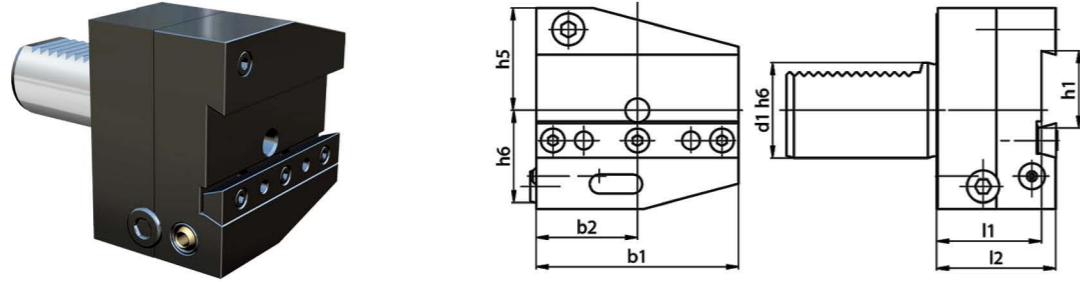
DIN 69880

短型横向切刀反切右刀夹



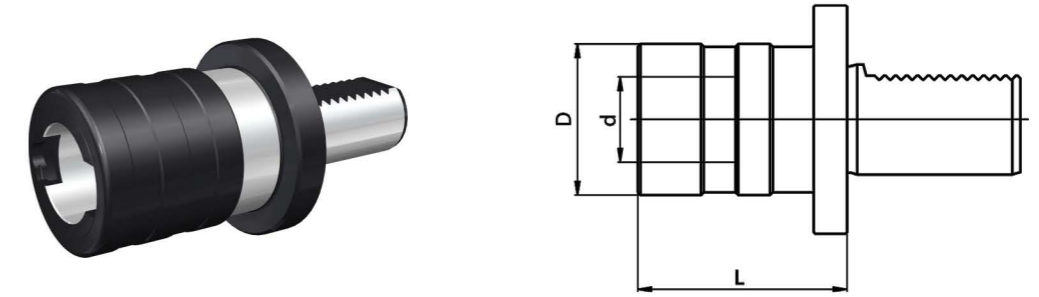
Size	d1	b1	b2	h1	h5	h6	l1	l2
ARU2526	25	60	30	26	36	28	44	50
ARU3026	30	70	35	26	38	35	44	50
ARU4026	40	85	42.5	26	43	41.5	44	50
ARU4032	40	85	42.5	32	43	41.5	44	50
ARU5026	50	100	50	26	43	45	44	50
ARU5032	50	100	50	32	43	45	44	50
ARU6032	60	125	62.5	32	48	55	44	50

Cuting Off Tool Holder Inverted Left Height Adjustable **DIN 69880**
 短型横向切刀反切左刀夹



Size	d1	b1	b2	h1	h5	h6	l1	l2
ALU2526	25	60	30	26	36	28	44	50
ALU3026	30	70	35	26	38	35	44	50
ALU4026	40	85	42.5	26	43	41.5	44	50
ALU4032	40	85	42.5	32	43	41.5	44	50
ALU5026	50	100	50	26	43	45	44	50
ALU5032	50	100	50	32	43	45	44	50
ALU6032	60	125	62.5	32	48	55	44	50

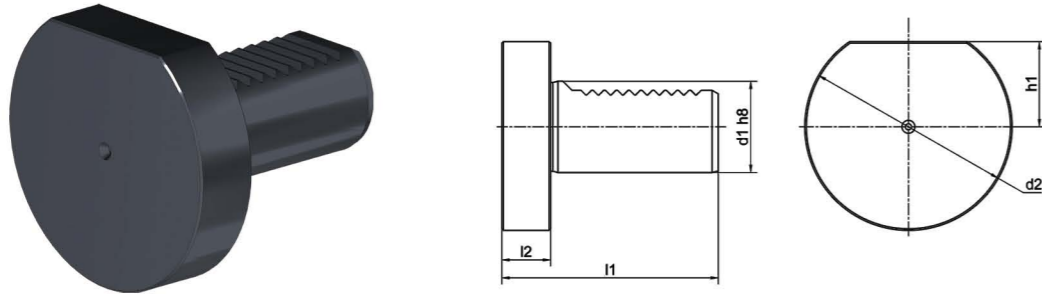
Quick Change Tapping Chuck with Length Compensation **DIN 69880**
 弹性快换攻丝刀柄



Size	Collet Size	d	D	L	T	C
VDI20-TC312-55	1	19	38	70	7.5	7.5
VDI30-TC312-55	1	19	38	70	7.5	7.5
VDI30-TC820-77	2	31	54	95	12.5	12.5
VDI40-TC312-55	1	19	38	65	7.5	7.5
VDI40-TC820-77	2	31	53	93	12.5	12.5
VDI40-TC1433-110	3	48	78	166	22	22
VDI50-TC312-55	1	19	38	65	7.5	7.5
VDI50-TC820-77	2	31	53	93	12.5	12.5
VDI50-TC1433-110	3	48	78	166	22	22

Protection Plug Form Z2
DIN 69880

保护塞


Steel Plug

Size	d1	d2	h1	l1	l2
Z2-16x13S	16	40	18	45	13
Z2-20x16S	20	50	23	56	16
Z2-25x16S	25	58	25	64	16
Z2-30x16S	30	68	28	71	16
Z2-40x20S	40	83	32.5	83	20
Z2-50x20S	50	98	35	98	20
Z2-60x20S	60	123	42.5	114	20

Plastic Plug

Size	d1	d2	h1	l1	l2
Z2-16x13P	16	40	18	45	13
Z2-20x16P	20	50	23	56	16
Z2-25x16P	25	58	25	64	16
Z2-30x16P	30	68	28	71	16
Z2-40x20P	40	83	32.5	83	20
Z2-50x20P	50	98	35	98	20
Z2-60x20P	60	123	42.5	114	20

ACCESSORY



ACCESSORY

▪ 附件

BRIGHT-TOOLS

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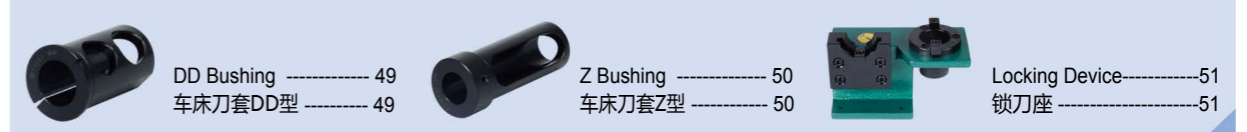
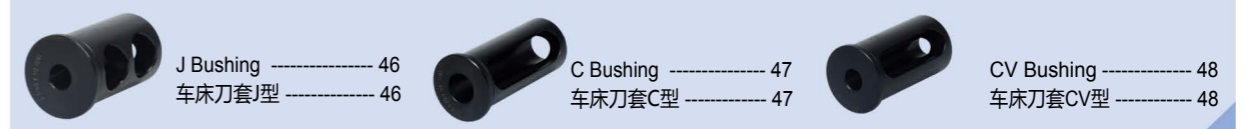
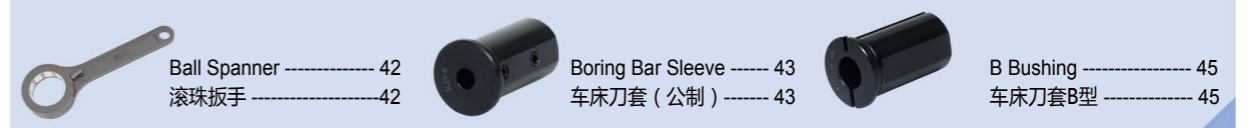
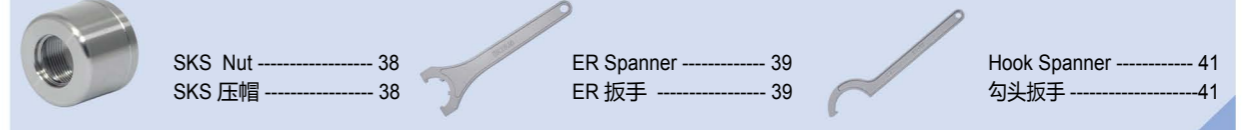
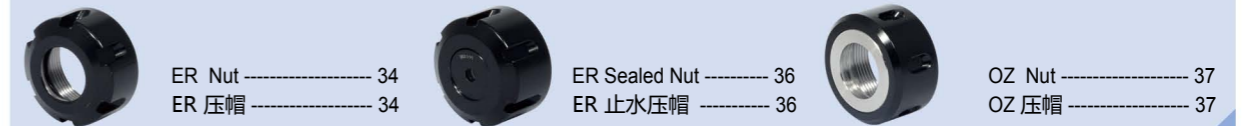
Tel: +86-534-8127522/33/88; +86-534-2356966

Web: <http://www.bright-tools.com>

Email: sales@bright-tools.com

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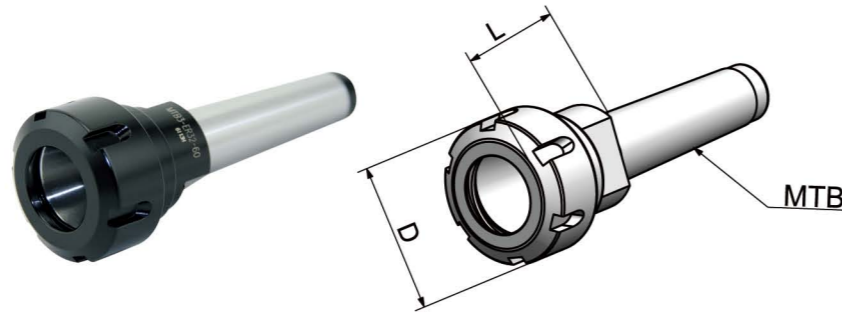
ACCESSORY**ACCESSORY**

ER Collet Chuck DIN6499

ER 弹簧夹头刀柄

DIN 228

Runout: 0.005 mm
Usage: for clamping tools with straight shank in collets DIN 6499.



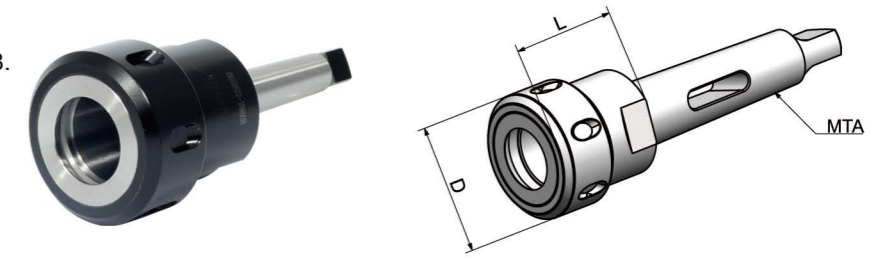
Size	D	L	Capacity
MTB1-ER11A-30	19	30	1-7
MTB1-ER16A-40	28	40	1-10
MTB2-ER16M-50	22	50	1-10
MTB2-ER20M-50	28	50	1-13
MTB2-ER11A-30	19	30	1-7
MTB2-ER16A-50	28	50	1-10
MTB2-ER20A-50	34	50	1-13
MTB2-ER25-47	42	47	2-16
MTB2-ER32-75	50	75	2-20
MTB2-ER40-80	63	80	3-26
MTB3-ER16M-60	22	60	1-10
MTB3-ER20M-50	28	50	1-13
MTB3-ER16A-50	28	50	1-10
MTB3-ER20A-50	36	50	1-13
MTB3-ER25-56	42	56	2-16
MTB3-ER32-60	50	60	2-20
MTB3-ER40-80	63	80	3-26
MTB4-ER25-60	42	60	2-16
MTB4-ER32-60	50	60	2-20
MTB4-ER40-80	63	80	3-26
MTB4-ER50-80	78	80	6-34
MTB5-ER40-80	63	80	3-26
MTB5-ER50-80	78	80	6-34

OZ Collet Chuck DIN6391

OZ 夹头刀柄

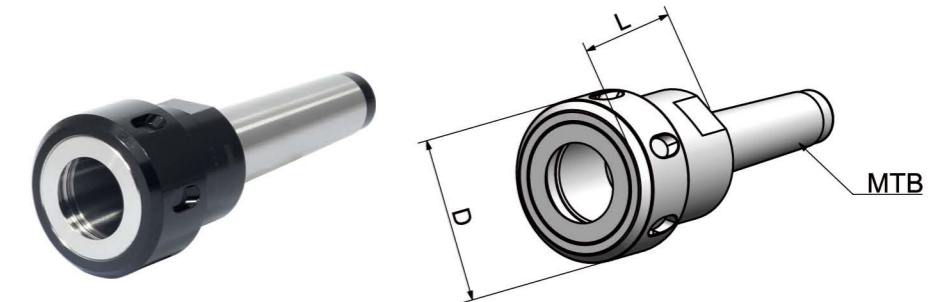
DIN 228

Runout: 0.005 mm
Usage: for clamping tools with straight shank in collets DIN 6388.



Size	D	L	Capacity
MTA2-OZ25-70	60	70	3-25
MTA3-OZ25-70	60	70	3-25
MTA4-OZ25-70	60	70	3-25

Runout: 0.005 mm
Usage: for clamping tools with straight shank in collets DIN 6388.

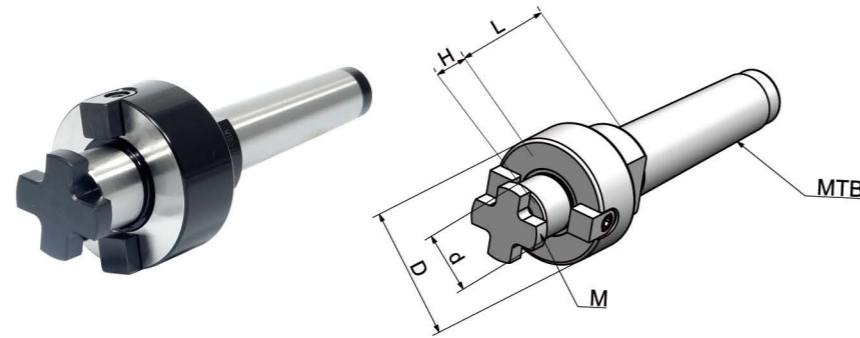


Size	D	L	Capacity
MTB2-OZ25-70	60	70	3-25
MTB3-OZ25-70	60	70	3-25
MTB4-OZ25-70	60	70	3-25
MTB4-OZ32-80	72	80	6-32
MTB5-OZ25-75	60	75	3-25
MTB5-OZ32-80	72	80	6-32

Face Mill Holder DIN6357

面铣刀柄

Runout: 0.005 mm
Usage: for holding tools like shell mill cutters.

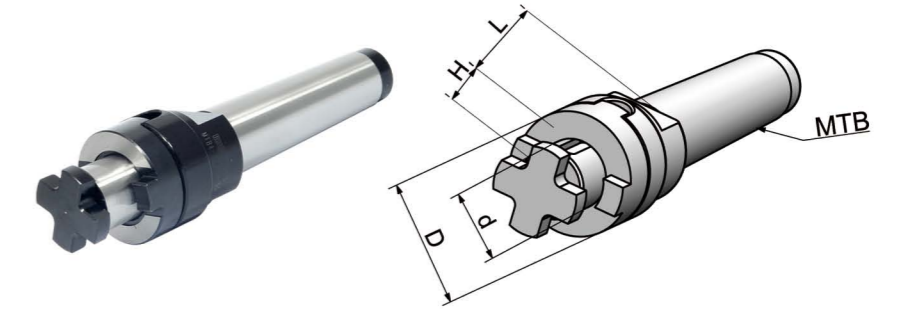

DIN 228

Size	d	D	L	H	M
MTB3-FMB16-48	16	38	48	17	M8
MTB3-FMB22-48	22	48	48	19	M10
MTB3-FMB27-48	27	58	48	21	M12
MTB3-FMB32-48	32	78	48	24	M16
MTB3-FMB40-48	40	88	48	27	M20
MTB4-FMB22-55	55	48	55	19	M10
MTB4-FMB27-55	27	58	55	21	M12
MTB4-FMB32-55	32	78	55	24	M16
MTB4-FMB40-55	40	88	55	27	M20

Combi Shell Mill Holder DIN6358

混合插入式铣刀柄

Runout: 0.005 mm
Usage: for holding tools like shell mill cutters and angular milling cutters.

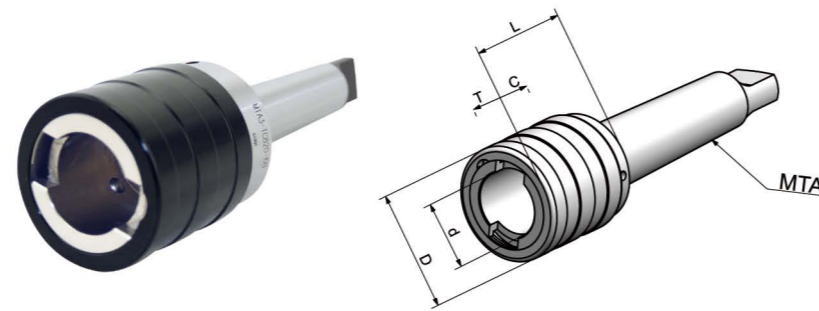

DIN 228

Size	d	D	H	L
MTB3-SEMC16-48	16	32	17	48
MTB3-SEMC22-48	22	40	19	48
MTB3-SEMC27-48	27	48	21	48
MTB3-SEMC32-48	32	58	24	48
MTB4-SEMC16-55	16	32	17	55
MTB4-SEMC22-55	22	40	19	55
MTB4-SEMC27-55	27	48	21	55
MTB4-SEMC32-55	32	58	24	55

Quick Change Tapping Chuck with Length Compensation 弹性快换攻丝刀柄

DIN 228

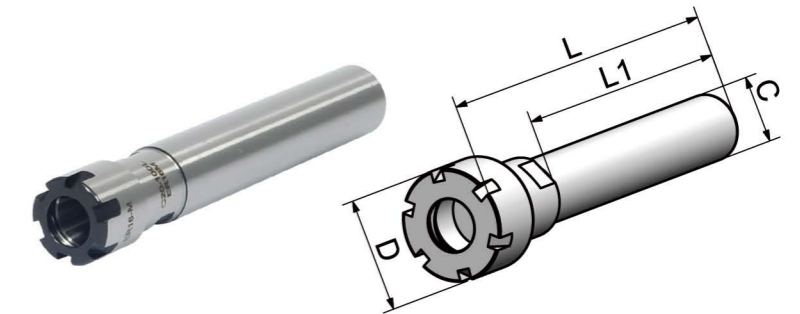
Usage: for tapping preferably.
Axial length compensation on tension and pressure.



Size	Collet Size	D	d	L	T	C
MTA2-TC312-46	1	36	19	46	7.5	7.5
MTA3-TC312-46	1	36	19	46	7.5	7.5
MTA3-TC820-68	2	53	31	68	12.5	12.5
MTA4-TC820-70	2	35	31	70	12.5	12.5
MTA4-TC1433-108	3	78	48	108	22	22
MTA5-TC1433-103	3	78	48	103	22	22

ER Collet Chuck with Mini Nut DIN6499 ER 弹簧夹头刀柄

Runout: 0.005mm
Usage: for clamping tools with straight shank in collets DIN 6499.



Metric

Size	C	D	L1	L
C08-ER8M-100	08	12	100	124.5
C10-ER8M-100	10	12	100	124.5
C10-ER8M-150	10	12	150	174.5
C12-ER11M-100	12	16	100	125
C16-ER11M-100	16	16	100	125
C16-ER11M-150	16	16	150	175
C16-ER16M-100	16	22	100	131
C16-ER16M-150	16	22	150	181
C20-ER16M-100	20	22	100	131
C20-ER16M-150	20	22	150	181
C20-ER20M-100	20	28	100	137
C20-ER20M-150	20	28	150	187
C25-ER16M-100	25	22	100	131
C25-ER16M-150	25	22	150	181
C25-ER20M-100	25	28	100	137
C25-ER20M-150	25	28	150	187

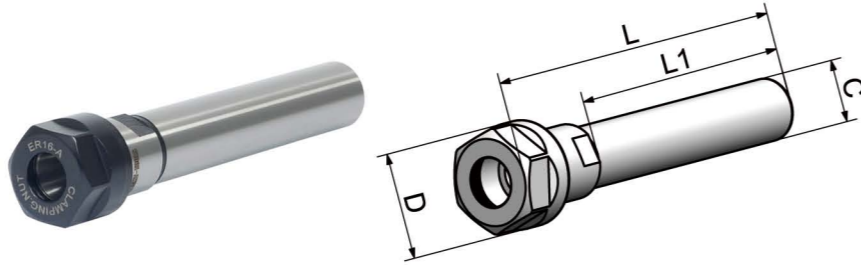
Inch

Size	C	D	L1	L
C1/2"-ER11M-4.0"	1/2"	16	4"	126.6
C1/2"-ER11M-6.0"	1/2"	16	6"	177.4
C1/2"-ER16M-4.0"	1/2"	22	4"	132.6
C1/2"-ER16M-6.0"	1/2"	22	6"	183.4

ER Collet Chuck with Hex Nut DIN6499

ER 弹簧夹头刀柄

Runout: 0.005mm
Usage: for clamping tools with straight shank in collets DIN 6499.



Metric

Size	C	D	L1	L
C10-ER8A-100	10	13.3	100	124.5
C10-ER11A-100	10	19	100	124
C12-ER8A-100	12	13.3	100	124.5
C12-ER11A-100	12	19	100	124
C16-ER11A-50	16	19	50	74
C16-ER11A-100	16	19	100	124
C16A-ER16A-100	16	28	100	131
C16A-ER16A-150	16	28	150	181
C20-ER16A-100	20	28	100	131
C20-ER16A-150	20	28	150	181
C20A-ER20A-100	20	34	100	136.5
C20A-ER20A-150	20	34	150	186.5
C25-ER16A-100	25	28	100	136.5
C25-ER16A-150	25	28	150	186.5
C25-ER20A-100	25	34	100	136.5
C25-ER20A-150	25	34	150	186.5

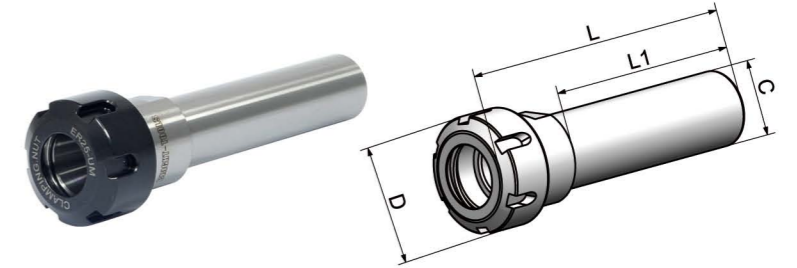
Inch

Size	C	D	L1	L
C1/2"-ER11A-3.5"	1/2"	19	3.5"	112.9
C1/2"-ER11A-6"	1/2"	19	6"	176.4
C3/4"-ER16A-4"	3/4"	28	4"	132.6
C3/4"-ER16A-6"	3/4"	28	6"	183.4
C3/4"-ER20A-4"	3/4"	34	4"	138.6
C3/4"-ER20A-6"	3/4"	34	6"	189.4

ER Collet Chuck with UM Nut DIN6499

ER 弹簧夹头刀柄

Runout: 0.005mm
Usage: for clamping tools with straight shank in collets DIN 6499.



Metric

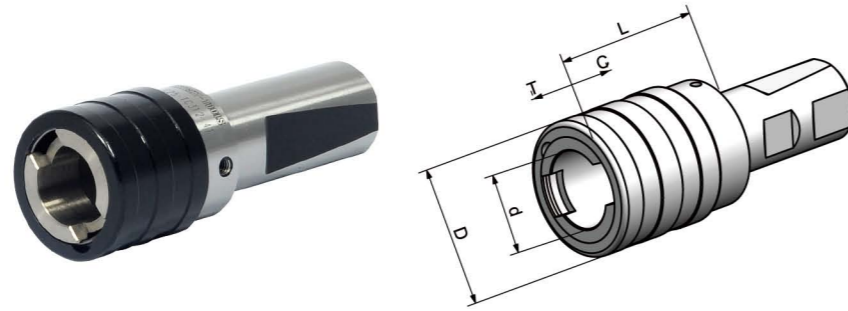
Size	C	D	L1	L
C20-ER25UM-100	20	42	100	144
C25-ER25UM-100	25	42	100	144
C25-ER25UM-150	25	42	150	194
C25-ER25UM-200	25	42	200	244
C25-ER32UM-100	25	50	100	148
C32-ER25UM-100	32	42	100	144
C32-ER25UM-150	32	42	150	194
C32-ER32UM-100	32	50	100	148
C32-ER32UM-150	32	50	150	198
C32-ER32UM-200	32	50	200	248
C32-ER40UM-100	32	63	100	151
C40-ER32UM-100	40	50	100	148
C40-ER40UM-100	40	63	100	151
C40-ER40UM-150	40	63	150	201

Inch

Size	C	D	L1	L
C3/4"-ER25-4"	3/4"	42	4"	145.6
C1"-ER25-6"	1"	42	6"	196.4
C1"-ER32-4"	1"	50	4"	149.6
C1-1/4"-ER32-6"	1-1/4"	50	6"	200.4

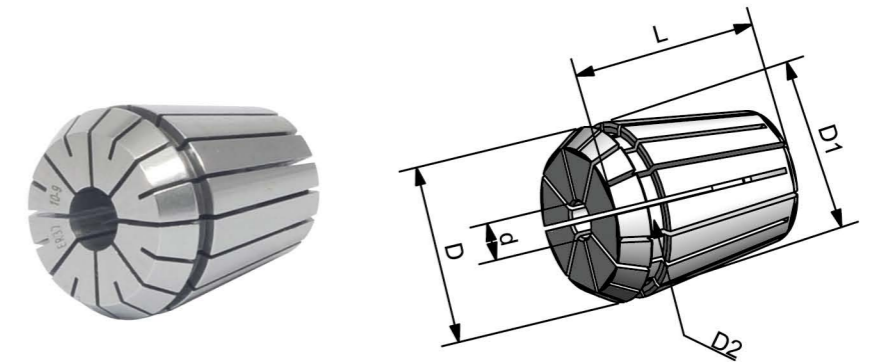
Quick Change Tapping Chuck with Length Compensation 弹性快换攻丝刀柄

Usage: for tapping preferably.
Axial length compensation on
tension and pressure.



Size	Collet Size	L	D	d	T	C
C20-TC312-41	1	41	36	19	7.5	7.5
C25-TC312-41	1	41	36	19	7.5	7.5
C25-TC820-63	2	63	53	31	12.5	12.5
C32-TC312-41	1	41	36	19	7.5	7.5
C32-TC820-63	2	63	53	31	12.5	12.5
C32-TC1433-97	3	97	78	48	22	22
C40-TC312-41	1	41	36	19	7.5	7.5
C40-TC820-63	2	63	53	31	12.5	12.5
C40-TC1433-97	3	97	78	48	22	22

ER Collet ER 弹簧夹头

DIN 6499B

Metric

Size	d	D1	D	D2	L
ER8	1-5	8	8.45	6.5	13.5
ER11	1-7	11	11.5	9.5	18
ER16	1-10	16	17	13.8	27.5
ER20	1-13	20	21	17.4	31.5
ER25	2-16	25	26	22	34
ER32	2-20	32	33	29.2	40
ER40	3-26	40	41	36.2	46

Inch

Size	d	D1	D	D2	L
ER11	1/32-17/64	11	11.5	9.5	18
ER16	1/32-3/8	16	17	13.8	27.5
ER20	1/32-33/64	20	21	17.4	31.5
ER25	3/64-5/8	25	26	22	34
ER32	1/16-25/32	32	33	29.2	40
ER40	1/8-1"	40	41	36.2	46

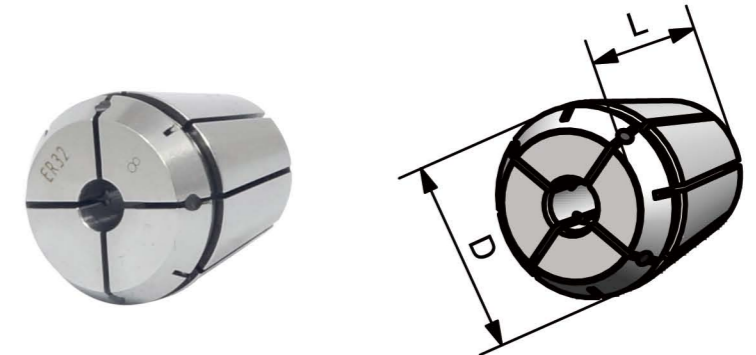
ER Collet Set
ER 筒夹套装
DIN 6499B

Metric

Size	Collet Diameter	PCS/SET
ER8-5 PCS	1-5	5
ER8-9 PCS	1-5	9
ER11-7 PCS	1-7	7
ER11-13 PCS	1-7	13
ER16-10 PCS	1-10	10
ER20-13 PCS	1-13	13
ER25-15 PCS	2-16	15
ER32-18 PCS	2-20	18
ER40-23 PCS	4-26	23

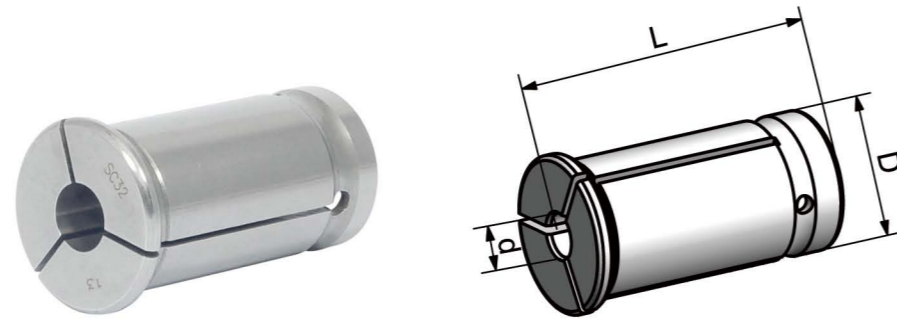
Inch

Size	Collet Diameter	PCS/SET
ER8-6 PCS (inch)	1/32, 1/16, 3/32, 1/8, 5/32, 3/16	6
ER16-8 PCS (inch)	1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8	8
ER20-11 PCS (inch)	1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2	11
ER25-9 PCS (inch)	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8	9
ER32-18 PCS (inch)	1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32, 1/2, 9/16, 5/8, 11/16, 23/32, 3/4	18
ER40-23 PCS (inch)	1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32, 1/2, 9/16, 5/8, 11/16, 23/32, 3/4, 13/16, 27/32, 7/8, 29/32, 1"	23

ER Sealed Collet
ER 止水筒夹
DIN 6499


Size	D	L	Diameter
ERS16	17	27.5	3-10
ERS20	21	31.5	3-13
ERS25	26	34	3-16
ERS32	33	40	3-20
ERS40	41	46	3-26

Straight Shank Collet SC 直柄筒夹



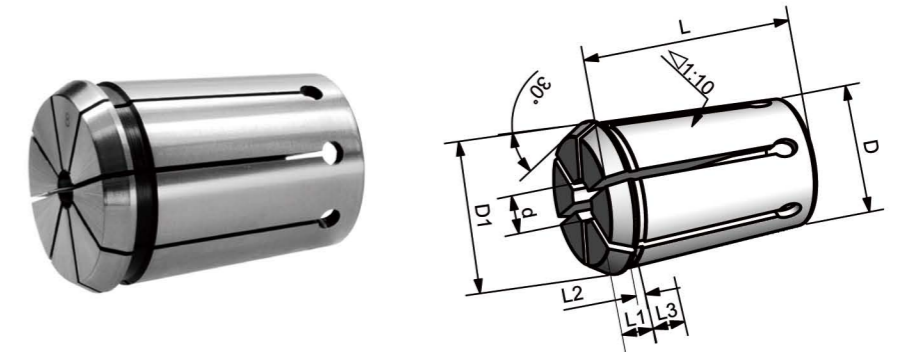
Metric

Size	d	D	L
SC16	3,4,5,6,8,10,12	16	45
SC20	3,4,5,6,8,10,12,14,16	20	50
SC22	3,4,5,6,8,10,12,14,16	22	54
SC25	3,4,5,6,8,10,12,14,16,18,20	25	60
SC32	3,4,5,6,8,10,12,14,16,18,20,25	32	64
SC40	6,8,10,12,14,16,18,20,25,28,30,32	40	80
SC42	3,4,5,6,8,10,12,14,16,18,20,22,24,25,28,30,32	42	80

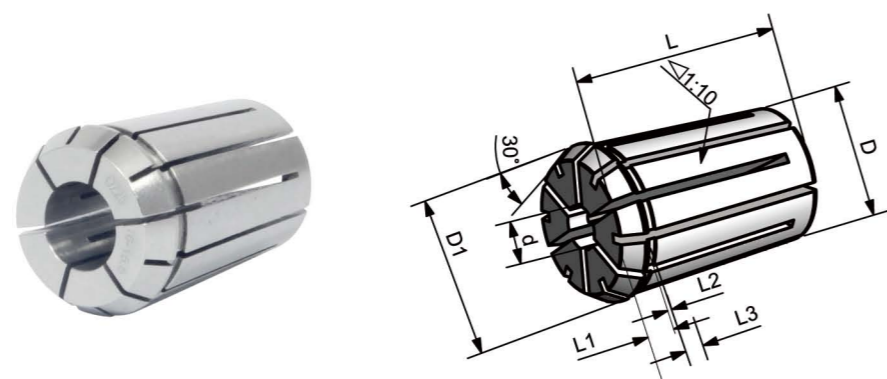
Inch

Size	d	D	L
SC1/2"	1/8, 3/16, 1/4, 5/16, 3/8	1/2"	1.73"
SC3/4"	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8	3/4"	1.97"
SC1"	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8	1"	2.36
SC1-1/4"	3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, 1	1-1/4"	2.52"

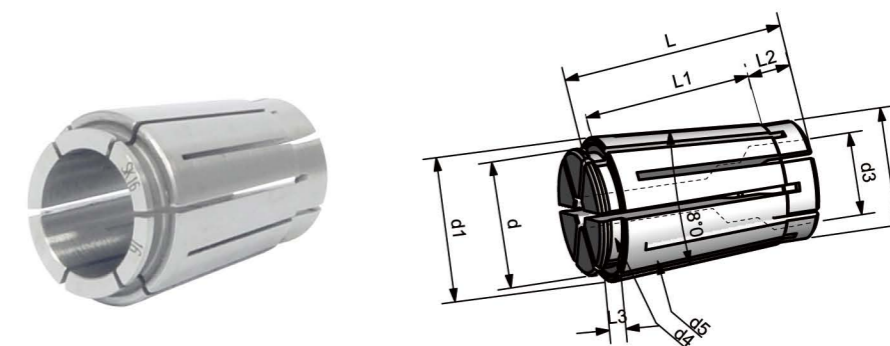
OZ Collet OZ 筒夹A型

DIN 6388A


Size	d	D	D1	L	L1	L2	L3
OZ06A	1-6	10	11.5	21	3.5	0.5	4
OZ08A	1-8	12.65	14.5	26	4	0.8	4.5
OZ10A	1-10	15.15	17.2	30	4.5	0.8	4.5
OZ12A	1-12	17.75	19.8	34	5	1.1	4.5
OZ16A	2-16	22.65	25.5	40	5.5	1.2	5.5
OZ20A	2-20	27.4	29.8	45	6	1.35	6
OZ25A	2-25	32.9	35.05	52	6	1.4	6
OZ32A	4-32	41.3	43.7	60	6	1.45	7
OZ40A	6-40	49.7	52.2	68	6	1.45	8
OZ50A	8-50	61.1	63.8	80	7	1.55	9

OZ Collet
OZ 筒夹B型
DIN 6388B


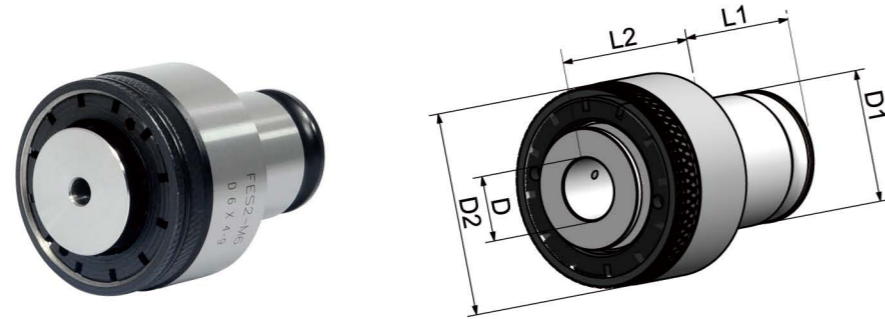
Size	d	D	D1	L	L1	L2	L3
OZ16B	2-16	22.65	25.5	40	5.5	1.2	9.5
OZ20B	2-20	27.4	29.8	45	6	1.35	10
OZ25B	2-25	32.9	35.05	52	6	1.4	10
OZ32B	4-32	41.3	43.7	60	6	1.45	11
OZ40B	6-40	49.7	52.2	68	6	1.45	12
OZ50B	8-50	61.1	63.8	80	7	1.55	13

SKS Collet
SKS 高速筒夹


Size	L	l1	l2	l3	d	d1	d2	d3	d4	d5
SK06	25	17.4	3.8	2.4	9	10.4	7.5	6	7.8	9.964
SK10	30.5	21.3	5	3	14	15.5	11.8	10	12	14.981
SK16	45	32	8	3.8	21	24.5	18.8	16	19	23.939
SK25	57	43	8.5	4.1	30	35.6	28.9	25	28.2	35.029

Collet extractor can be ordered separately.

Tapping Collet with Cluth 过载保护攻丝筒夹 (公制)



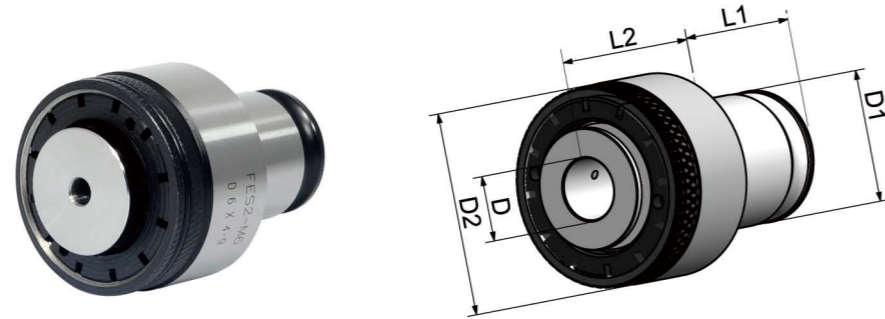
Size	Collet	M	D	□	D1	D2	L1	L2
FES1 M2(2.8x2.1)	FES 1	M2	2.8	2.1	19	33	21.5	25
FES1 M3(3.5x2.7)	FES 1	M3	3.5	2.7	19	33	21.5	25
FES1 M3.5(4x3)	FES 1	M3.5	4	3	19	33	21.5	25
FES1 M4(5x4)	FES 1	M4	5	4	19	33	21.5	25
FES1 M4(4.5x3.4)	FES 1	M4	4.5	3.4	19	33	21.5	25
FES1 M5(6x4.9)	FES 1	M5	6	4.9	19	33	21.5	25
FES1 M6(6.3x5)	FES 1	M6	6.3	5	19	33	21.5	25
FES1 M6(6x4.9)	FES 1	M6	6	4.9	19	33	21.5	25
FES1 M8(8x6.3)	FES 1	M8	8	6.3	19	33	21.5	25
FES1 M10(10v8)	FES 1	M10	10	8	19	33	21.5	25
FES1 M10(7x5.5)	FES 1	M10	7	5.5	19	33	21.5	25
FES1 M12(9x7.1)	FES 1	M12	9	7.1	19	33	21.5	25
FES1 M14(11x9)	FES 1	M14	11	9	19	33	21.5	25

Tapping Collet with Cluth 过载保护攻丝筒夹 (公制)



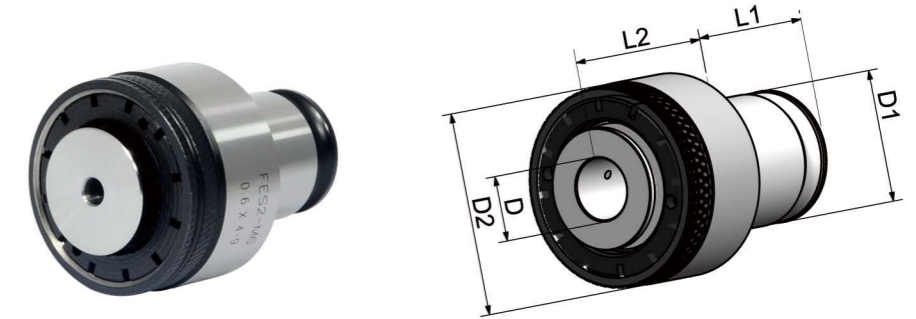
Size	Collet	M	D	□	D1	D2	L1	L2
FES2 M5(6x4.9)	FES 2	M5	6	4.9	31	51	35	35
FES2 M6(6.3x5)	FES 2	M6	6.3	5	31	51	35	35
FES2 M6(6x4.9)	FES 2	M6	6	4.9	31	51	35	35
FES2 M8(8x6.3)	FES 2	M8	8	6.3	31	51	35	35
FES2 M10(10x8)	FES 2	M10	10	8	31	51	35	35
FES2 M10(7x5.5)	FES 2	M10	7	5.5	31	51	35	35
FES2 M12(9v7.1)	FES 2	M12	9	7.1	31	51	35	35
FES2 M12(9x7)	FES 2	M12	9	7	31	51	35	35
FES2 M14(11x9)	FES 2	M14	11	9	31	51	35	35
FES2 M16(12.5x10)	FES 2	M16	12.5	10	31	51	35	35
FES2 M16(12x9)	FES 2	M16	12	9	31	51	35	35
FES2 M18(14x11)	FES 2	M18	14	11	31	51	35	35
FES2 M20(16x12)	FES 2	M20	16	12	31	51	35	35
FES2 M22(18x14.5)	FES 2	M22	18	14.5	31	51	35	35
FES2 M24(18x14.5)	FES 2	M24	18	14.5	31	51	35	35
FES2 M24(16x12.5)	FES 2	M24	16	12.5	31	51	35	35
FES3 M14(11x9)	FES 3	M14	11	9	48	73	55.5	45
FES3 M16(12x9)	FES 3	M16	12	9	48	73	55.5	45
FES3 M18(14x11)	FES 3	M18	14	11	48	73	55.5	45
FES3 M20(16x12)	FES 3	M20	16	12	48	73	55.5	45
FES3 M22(18x14.5)	FES 3	M22	18	14.5	48	73	55.5	45
FES3 M24(18x14.5)	FES 3	M24	18	14.5	48	73	55.5	45
FES3 M27(20x16)	FES 3	M27	20	16	48	73	55.5	45
FES3 M30(22x18)	FES 3	M30	22	18	48	73	55.5	45
FES3 M33(25x20)	FES 3	M33	25	20	48	73	55.5	45
FES3 M36(28x22)	FES 3	M36	28	22	48	73	55.5	45

Tapping Collet with Cluth 过载保护攻丝筒夹 (英制)



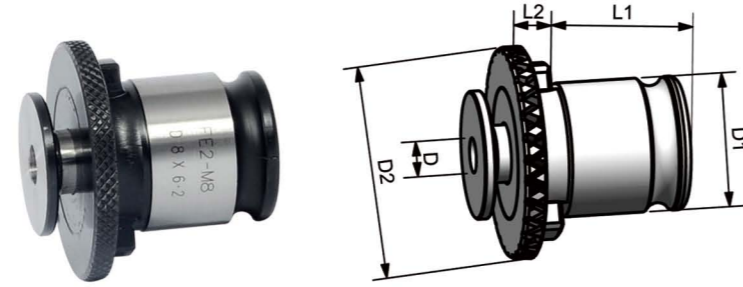
Size	Collet	ANSI	Metric	D	□	D1	D2	L1	L2
0-6" M1.6-M3.5	FES 1	0-6"	M1.6-M3.5	0.141	0.11	19	33	21.5	25
8, 5/32 M4	FES 1	8, 5/32	M4	0.168	0.131	19	33	21.5	25
10, 3/16" M4.5 M5	FES 1	10, 3/16"	M4.5 M5	0.194	0.152	19	33	21.5	25
12, 7/32"	FES 1	12, 7/32"	-	0.22	0.165	19	33	21.5	25
1/4" M6 M6.3	FES 1	1/4"	M6 M6.3	0.255	0.191	19	33	21.5	25
5/16" M7 M8	FES 1	5/16"	M7 M8	0.318	0.238	19	33	21.5	25
3/8" M10	FES 1	3/8"	M10	0.381	0.286	19	33	21.5	25
7/16" M11	FES 1	7/16"	M11	0.323	0.242	19	33	21.5	25
1/2" M12 M12.5	FES 1	1/2"	M12 M12.5	0.367	0.275	19	33	21.5	25
9/16" M14	FES 1	9/16"	M14	0.429	0.322	19	33	21.5	25
1/8" NPT	FES 1	1/8" NPT	-	0.437	0.328	19	33	21.5	25
5/16" M7 M8	FES 2	5/16"	M7 M8	0.318	0.238	31	51	35	35
3/8" M10	FES 2	3/8"	M10	0.381	0.286	31	51	35	35
7/16" M11	FES 2	7/16"	M11	0.323	0.242	31	51	35	35
1/2" M12 M12.5	FES 2	1/2"	M12 M12.5	0.367	0.275	31	51	35	35
9/16" M14	FES 2	9/16"	M14	0.429	0.322	31	51	35	35
5/8" M16	FES 2	5/8"	M16	0.48	0.36	31	51	35	35
11/16" M18	FES 2	11/16"	M18	0.542	0.406	31	51	35	35
3/4"	FES 2	3/4"	-	0.59	0.442	31	51	35	35
13/16" M20	FES 2	-	M20	0.652	0.489	31	51	35	35
7/8" M22	FES 2	-	M22	0.697	0.523	31	51	35	35
1/4" NPT	FES 2	1/4" NPT	-	0.562	0.421	31	51	35	35
3/8" NPT	FES 2	3/8" NPT	-	0.7	0.531	31	51	35	35
1/2" NPT	FES 2	1/2" NPT	-	0.687	0.515	31	51	35	35

Tapping Collet with Cluth 过载保护攻丝筒夹 (英制)



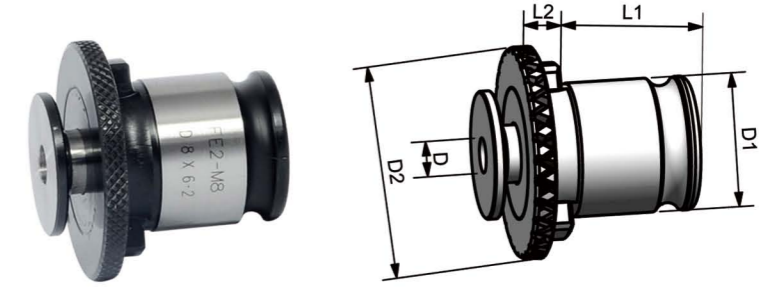
Size	Collet	ANSI	Metric	D	□	D1	D2	L1	L2
13/16" M20	FES 3	13/16"	M20	0.652	0.489	48	73	55.5	45
7/8" M22	FES 3	7/8"	M22	0.697	0.523	48	73	55.5	45
15/16" M24	FES 3	15/16"	M24	0.76	0.57	48	73	55.5	45
1" M25	FES 3	1"	M25	0.8	0.6	48	73	55.5	45
1-1/8", 1-1/16" M27	FES 3	1-1/8", 1-1/16"	M27	0.896	0.672	48	73	55.5	45
1-1/4", 1-3/16 M30	FES 3	1-1/4", 1-3/16	M30	1.021	0.766	48	73	55.5	45
1-3/8", 1-5/16 M33	FES 3	1-3/8", 1-5/16	M33	1.108	0.831	48	73	55.5	45
1/2" NPT	FES 3	1/2" NPT	-	0.687	0.515	48	73	55.5	45
3/4" NPT	FES 3	3/4" NPT	-	0.906	0.678	48	73	55.5	45
1" NPT	FES 3	1" NPT	-	1.125	0.843	48	73	55.5	45

Tapping Collet without Cluth 无过载保护攻丝筒夹 (公制)



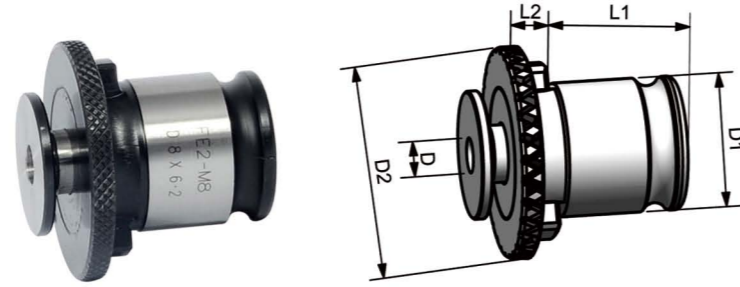
Size	Collet	M	D	□	D1	D2	L1	L2
FE1 M2(2.8x2.1)	FE 1	M2	2.8	2.1	19	30	21.5	7
FE1 M3(3.5x2.7)	FE 1	M3	3.5	2.7	19	30	21.5	7
FE1 M4(5x4)	FE 1	M4	5	4	19	30	21.5	7
FE1 M4(4.5x3.4)	FE 1	M4	4.5	3.4	19	30	21.5	7
FE1 M6(6x4.9)	FE 1	M6	6	4.9	19	30	21.5	7
FE1 M8(8x6.2)	FE 1	M8	8	6.2	19	30	21.5	7
FE1 M10(10x8)	FE 1	M10	10	8	19	30	21.5	7
FE1 M10(7x5.5)	FE 1	M10	7	5.5	19	30	21.5	7
FE1 M12(9x7)	FE 1	M12	9	7	19	30	21.5	7
FE2 M8(6x4.9)	FE 2	M8	6		31	48	35	11
FE2 M8(8x6.2)	FE 2	M8	8	6.2	31	48	35	11
FE2 M10(10x8)	FE 2	M10	10	8	31	48	35	11
FE2 M10(7x5.5)	FE 2	M10	7	5.5	31	48	35	11
FE2 M12(9x7.1)	FE 2	M12	9	7.1	31	48	35	11
FE2 M14(11x9)	FE 2	M14	11	9	31	48	35	11
FE2 M16(12x9)	FE 2	M16	12	9	31	48	35	11
FE2 M18(14x11)	FE 2	M18	14	11	31	48	35	11
FE2 M20(16x12)	FE 2	M20	16	12	31	48	35	11

Tapping Collet without Cluth 无过载保护攻丝筒夹 (公制)



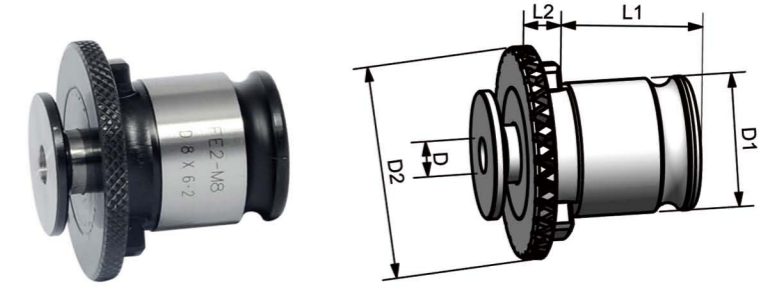
Size	Collet	M	D	□	D1	D2	L1	L2
FE3 M14(11x9)	FE 3	M14	11	9	48	70	55.5	13.5
FE3 M16(12x9)	FE 3	M16	12	9	48	70	55.5	13.5
FE3 M18(14x11)	FE 3	M18	14	11	48	70	55.5	13.5
FE3 M20(16x12)	FE 3	M20	16	12	48	70	55.5	13.5
FE3 M24(18x14.5)	FE 3	M24	18	14.5	48	70	55.5	13.5
FE3 M27(20x16)	FE 3	M27	20	16	48	70	55.5	13.5
FE3 M30(22x18)	FE 3	M30	22	18	48	70	55.5	13.5
FE3 M33(25x20)	FE 3	M33	25	20	48	70	55.5	13.5
FE3 M36(28x22)	FE 3	M36	28	22	48	70	55.5	13.5

Tapping Collet without Cluth 无过载保护攻丝筒夹 (英制)

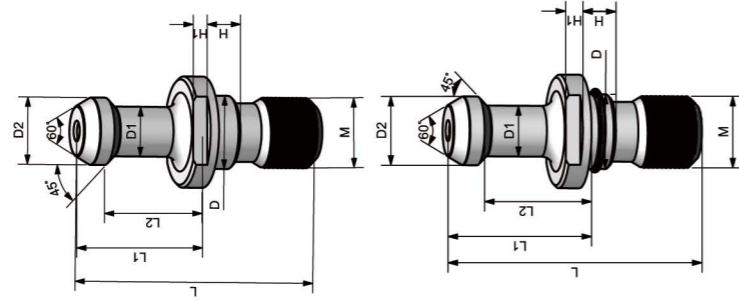


Size	Collet	ANSI	Metric	D	□	D1	D2	L1	L2
0-6" M1.6-M3.5	FE 1	0-6"	M1.6-M3.5	0.141	0.11	19	30	21.5	7
8, 5/32 M4	FE 1	8, 5/32	M4	0.168	0.131	19	30	21.5	7
10, 3/16" M4.5 M5	FE 1	10, 3/16"	M4.5 M5	0.194	0.152	19	30	21.5	7
12, 7/32"	FE 1	12, 7/32"	-	0.22	0.165	19	30	21.5	7
1/4" M6 M6.3	FE 1	1/4"	M6 M6.3	0.255	0.191	19	30	21.5	7
5/16" M7 M8	FE 1	5/16"	M7 M8	0.318	0.238	19	30	21.5	7
3/8" M10	FE 1	3/8"	M10	0.381	0.286	19	30	21.5	7
7/16" M11	FE 1	7/16"	M11	0.323	0.242	19	30	21.5	7
1/2" M12 M12.5	FE 1	1/2"	M12 M12.5	0.367	0.275	19	30	21.5	7
9/16" M14	FE 1	9/16"	M14	0.429	0.322	19	30	21.5	7
1/8" NPT	FE 1	1/8" NPT	-	0.437	0.328	19	30	21.5	7
5/16" M7 M8	FE 2	5/16"	M7 M8	0.318	0.238	31	48	35	11
3/8" M10	FE 2	3/8"	M10	0.381	0.286	31	48	35	11
7/16" M11	FE 2	7/16"	M11	0.323	0.242	31	48	35	11
1/2" M12 M12.5	FE 2	1/2"	M12 M12.5	0.367	0.275	31	48	35	11
9/16" M14	FE 2	9/16"	M14	0.429	0.322	31	48	35	11
5/8" M16	FE 2	5/8"	M16	0.48	0.36	31	48	35	11
11/16" M18	FE 2	11/16"	M18	0.542	0.406	31	48	35	11
3/4"	FE 2	3/4"	-	0.59	0.442	31	48	35	11
13/16" M20	FE 2	-	M20	0.652	0.489	31	48	35	11
7/8" M22	FE 2	-	M22	0.697	0.523	31	48	35	11
1/4" NPT	FE 2	1/4" NPT	-	0.562	0.421	31	48	35	11
3/8" NPT	FE 2	3/8" NPT	-	0.7	0.531	31	48	35	11
1/2" NPT	FE 2	1/2" NPT	-	0.687	0.515	31	48	35	11

Tapping Collet without Cluth 无过载保护攻丝筒夹 (英制)

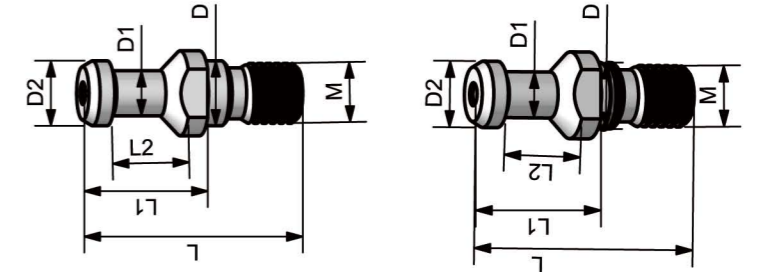


Size	Collet	ANSI	Metric	D	□	D1	D2	L1	L2
13/16" M20	FE 3	13/16"	M20	0.652	0.489	48	70	55.5	13.5
7/8" M22	FE 3	7/8"	M22	0.697	0.523	48	70	55.5	13.5
15/16" M24	FE 3	15/16"	M24	0.76	0.57	48	70	55.5	13.5
1" M25	FE 3	1"	M25	0.8	0.6	48	70	55.5	13.5
1-1/8", 1-1/16" M27	FE 3	1-1/8", 1-1/16"	M27	0.896	0.672	48	70	55.5	13.5
1-1/4", 1-3/16 M30	FE 3	1-1/4", 1-3/16	M30	1.021	0.766	48	70	55.5	13.5
1-3/8", 1-5/16 M33	FE 3	1-3/8", 1-5/16	M33	1.108	0.831	48	70	55.5	13.5
1/2" NPT	FE 3	1/2" NPT	-	0.687	0.515	48	70	55.5	13.5
3/4" NPT	FE 3	3/4" NPT	-	0.906	0.678	48	70	55.5	13.5
1" NPT	FE 3	1" NPT	-	1.125	0.843	48	70	55.5	13.5

BT Pull Stud
BT 拉钉
JIS B 6339


Size	D	D1	D2	M	L	L1	L2	H	H1	Ø
BT30-45	12.5	7	11	M12	43	23	18	4	3.5	45
BT40-45	17	10	15	M16	60	35	28	5	4	45
BT50-45	25	17	23	M24	85	45	35	8	8	45
BT30C-45	12.5	7	11	M12	43	23	18	4	3.5	45
BT40C-45	17	10	15	M16	60	35	28	5	4	45
BT50C-45	25	17	23	M24	85	45	35	8	8	45
BT30CO-45	12.5	7	11	M12	43	23	18	4	3.5	45
BT40CO-45	17	10	15	M16	60	35	28	5	4	45
BT50CO-45	25	17	23	M24	85	45	35	8	8	45

C: Through Hole
 O: with O-Ring
 Other sizes can be made by request.

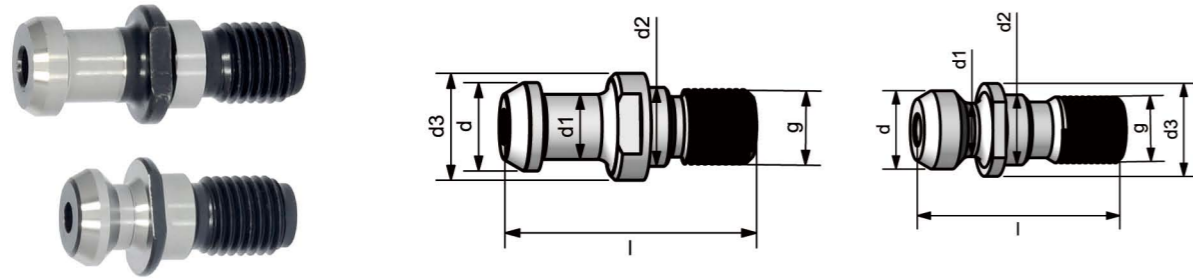
SK Pull Stud
SK 拉钉
DIN 69872


Size	D	D1	D2	M	L	L1	L2
SK-30A	13	9	13	M12	44	24	19
SK-40A	17	14	19	M16	54	26	20
SK-50A	25	21	28	M24	74	34	25
SK-30B	13	9	13	M12	44	24	19
SK-40B	17	14	19	M16	54	26	20
SK-50B	25	21	28	M24	74	34	25

A: Through Hole, without O-Ring
 B: Not Through Hole, with O-Ring
 Other sizes can be made by request.

ISO 7388 Pull Stud
ISO 7388 拉钉

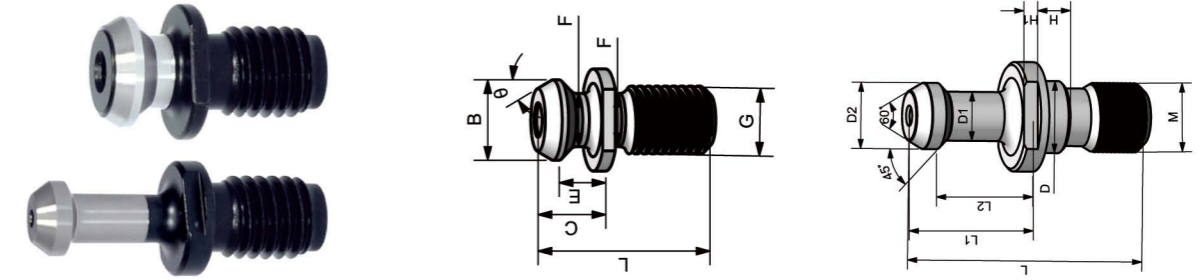
ISO 7388



Size	d3	d2	d1	d	g	l	t
DIN7388-40A	23	17	14	19	M16	54	7
DIN7388-50A	38	25	21	28	M24	74	10
DIN7388-40B	22.5	17	12.95	18.95	M16	44.4	7.35
DIN7388-50B	37	25	19.6	29.1	M24	66.55	11.55

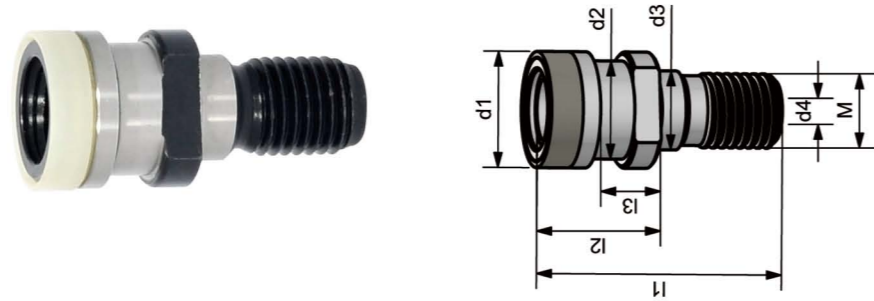
CAT Pull Stud
CAT 拉钉

ANSI B5.50



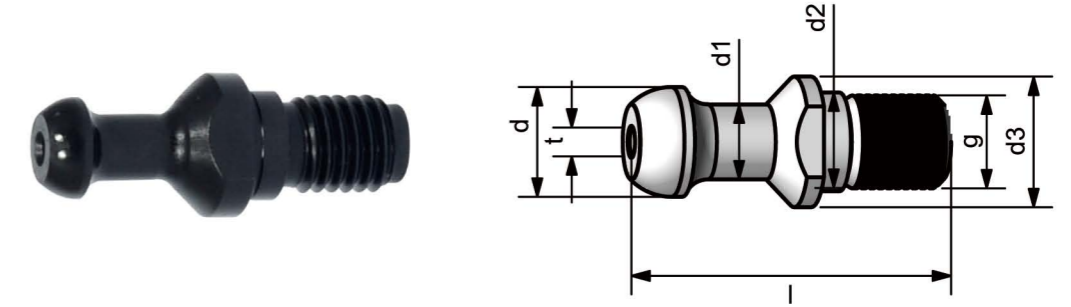
Size	Type	G	θ	L	B	C	E	F
CAT40-A	A	5/8"-11	45	1.5	0.74	0.64	0.44	0.49
CAT50-A	A	1"-8	45	2.3	1.14	1	0.7	0.82
CAT40-B	B	5/8"-11	45/60/90	2.25	0.59	1.27	0.99	0.392
CAT50-B	B	1"-8	45/60/90	3.07	0.906	1.772	1.378	0.669

OTT Pull Stud
OTT 拉杆



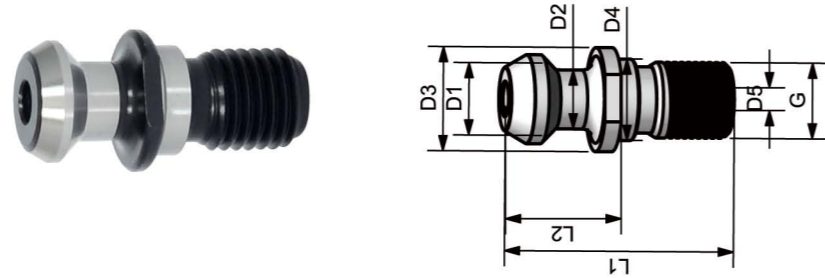
Size	M	d1	d2	d3	d4	l3	l2	l1
NT40	M16	25	21.1	17	7	13.6	25	53
NT50	M24	39.29	32	25	7	13.3	25.1	65

ISO Pull Stud
ISO 拉钉



Size	L1	L2	L3	D1	D2	D3	D4	D5
ISO20	26	12	9	12	9	6	8.5	M8
ISO25	28	12	9	13	11	7	8.5	M8
ISO30	44	24	19	17	13	9	13	M12

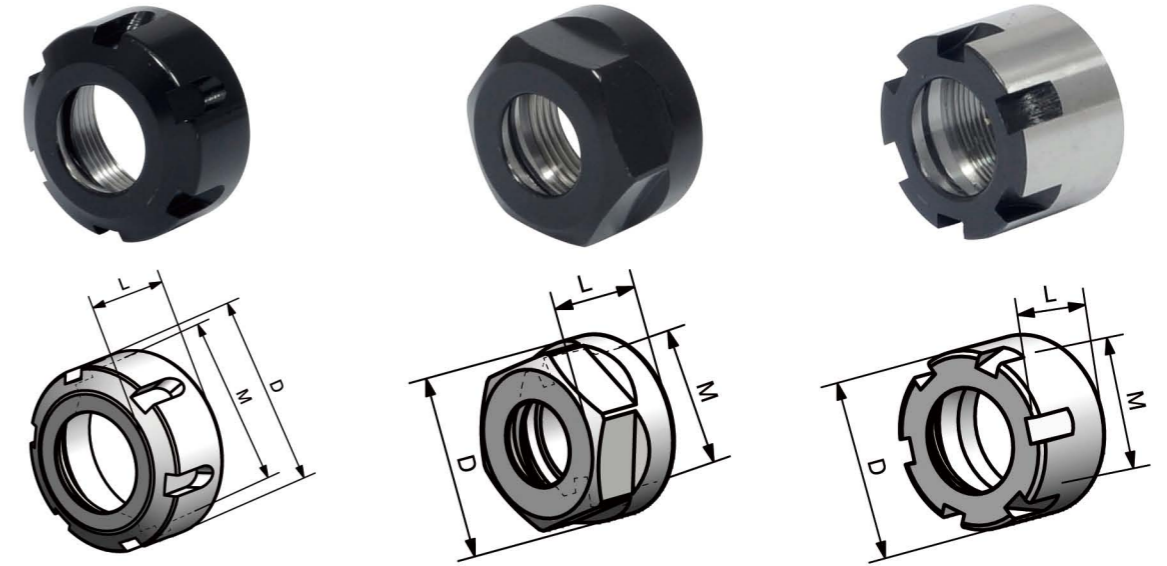
Mazak Pull Stud 马扎克拉钉



Size	L1	L2	D1	D2	D3	D4	D5	W	G
Marzak-BT40	44.1	19.1	18.8	12.45	22	17	7	19	M16
Marzak-BT50	65.2	25.2	29	20.83	37	25	10	30	M24

Size	D	D1	D2	D3	L	L1	L2	M
Marzak-CAT40	22	17	18.79	12.5	41.25	16.25	11.17	M16
Marzak-CAT50	35.6	25	28.95	20.82	65.4	25.4	17.78	M24

ER Nut ER 压帽

DIN 6499

UM

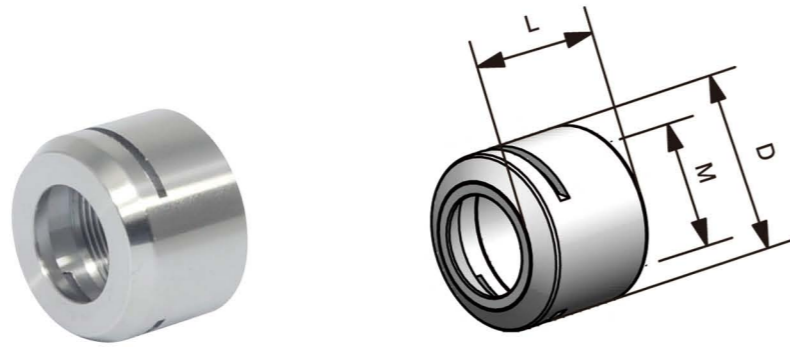
Size	D	d	L	M
ER16-UM	32	26	17	M22X1.5
ER20-UM	35	29	19	M25X1.5
ER25-UM	42	36	20	M32X1.5
ER32-UM	50	44	22.5	M40X1.5
ER40-UM	63	57	25.5	M50X1.5
ER50-UM	78	71	35.5	M64X2

Hex

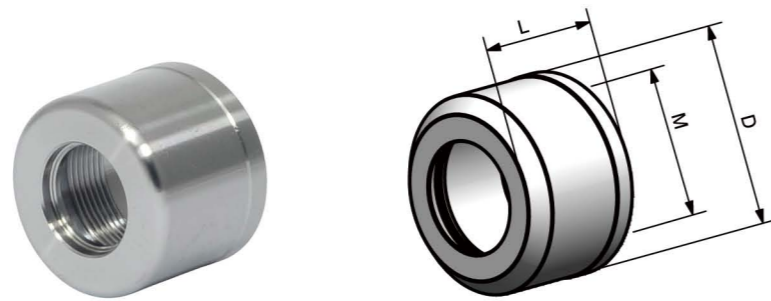
Size	D	d	L	M
ER11-A	19	17	11.3	M14X0.75
ER16-A	28	25	17.5	M22X1.5
ER20-A	34	30	19	M25X1.5

Mini

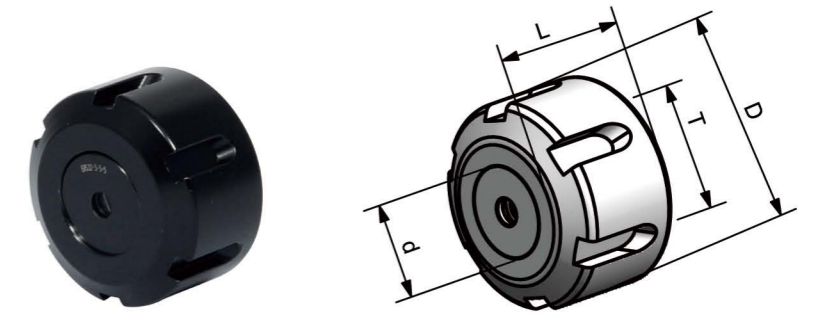
Size	D	d	L	M
ER8-M	12	10	10	M10X0.75
ER11-M	16	12	12	M13X0.75
ER16-M	22	17.2	18	M19X1
ER20-M	28	22.5	19	M24X1
ER25-M	35	28.6	20	M30X1

ER Nut
ER 压帽
DIN 6499

MS

Size	D	L	M
ER11MS	16	12	M13×0.75
ER16MS	22	17	M19×1.0
ER20MS	28	19	M24×1.0
ER25MS	35	20	M30×1.0


GER

Size	D	L	M
GER16	30	24.7	TM22×1.5
GER20	35	25.5	TM26×1.5
GER25	40	25.9	TM32×1.5
GER32	48	30	TM40×1.5

ER Sealed Nut
ERS 筒止水压帽

Sealed Nut

Size	D	d	L	T
ERS16	28	11	22.5	M22×1.5
ERS20	34	14	24	M25×1.5
ERS25	42	19	25	M32×1.5
ERS32	50	24	27.5	M40×1.5
ERS40	63	30	30.5	M50×1.5

Sealing Disc

Size	d	D
ERS16-d	1-10	13
ERS20-d	1-13	16
ERS25-d	2-16	20.7
ERS32-d	2-20	27
ERS40-d	3-26	33.5

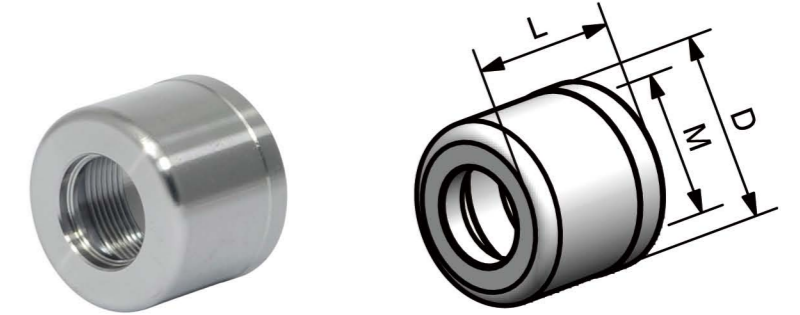
OZ Nut
OZ 压帽

DIN 6388



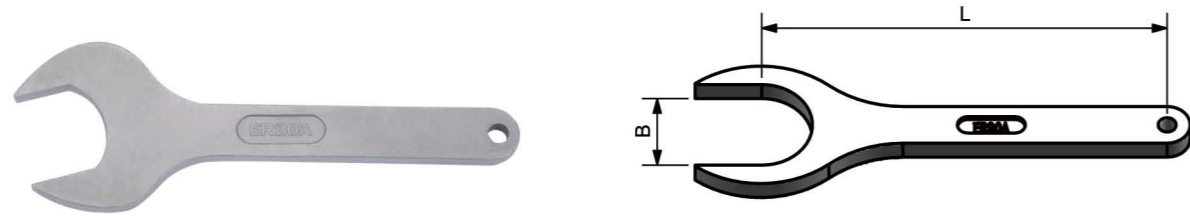
Size	D	L	M
OZ6	18	14	M14X1.0
OZ8	26	19	M20X1.5
OZ10	30	19	M22X1.5
OZ12	35	20	M27X1.5
OZ16	43	24	M33X1.5
OZ20	50	28	M42X2.0
OZ25	60	30	M48X2.0
OZ32	72	33.5	M60X2.5
OZ40	85	37	M68X2.5
OZ50	100	43	M80X2.5

SKS Nut
SKS 无风阻压帽



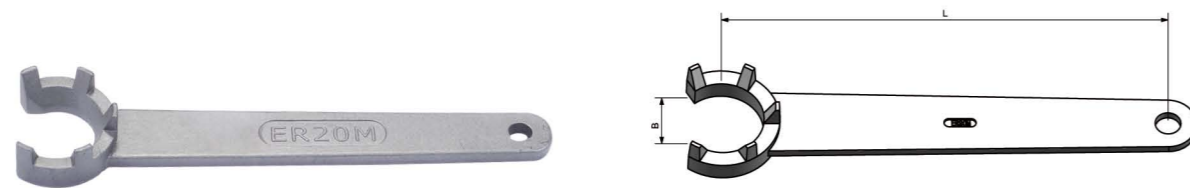
Size	D	L	M
GSK06	19.5	21	M15.5×1.0
GSK10	27.1	24	M21.5×1.0
GSK16	40	31	M32×1.5
GSK25	55	37	M45×1.5

ER Spanner ER 扳手



Hex

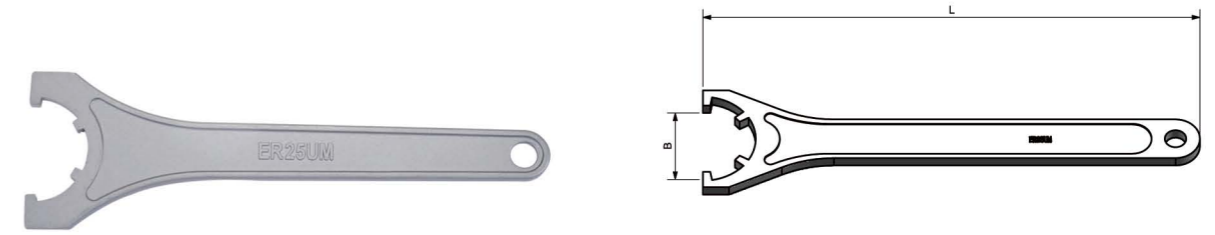
Size	B	L	Nut
ER11-A	17	110	ER11-A
ER16-A	25	120	ER16-A
ER20-A	30	130	ER20-A



Mini

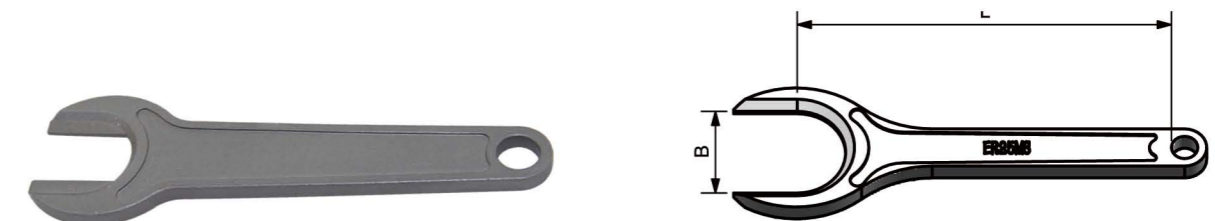
Size	B	L	Nut
ER8-M	7.5	70	ER8-M
ER11-M	11	90	ER11-M
ER16-M	15	110	ER16-M
ER20-M	19.5	120	ER20-M
ER25-M	25	130	ER25-M

ER Spanner ER 扳手



UM

Size	B	L	Nut
ER16-UM	26	180	ER16-UM
ER20-UM	30	190	ER20-UM
ER25-UM	37	210	ER25-UM
ER32-UM	46.5	250	ER32-UM
ER40-UM	58	290	ER40-UM
ER50-UM	74	350	ER50-UM



MS

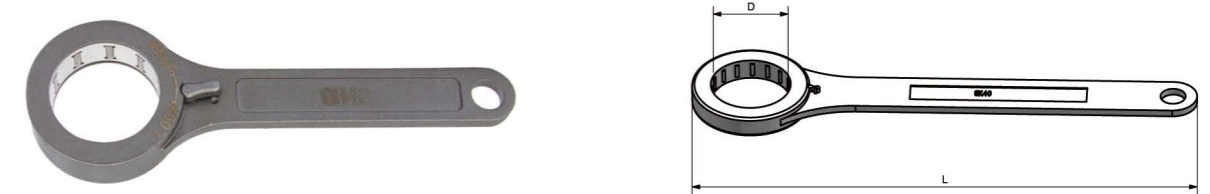
Size	A	L
ER11MS	10	100
ER16MS	15	130
ER20MS	18	160
ER25MS	23	200

Hook Spanner 勾头扳手



Size	L	Range
OZ25	215	55-62
OZ32	230	68-72
SC20	214	55-62
SC25	214	55-62
SC32	235	68-72
SC42	261	78-85

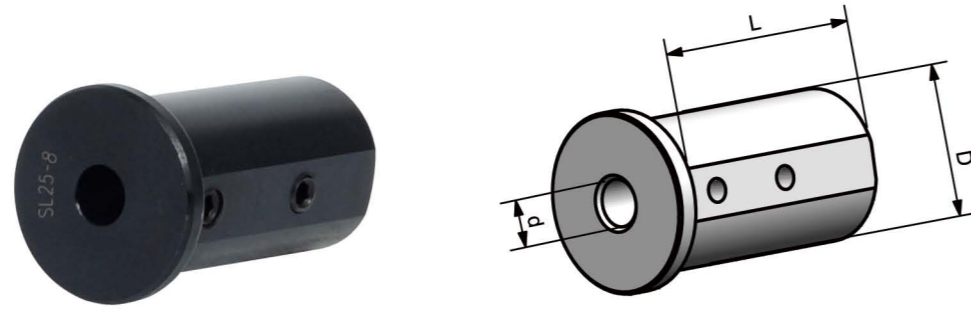
Ball Spanner 滚珠扳手



Size	D	L	Wt (kg)
SKS06	19.5	120	0.24
SKS10	27.1	135	0.3
SKS16	40	180	0.7
SKS25	55	300	0.38

Reduction Sleeve for Boring Bar Holder

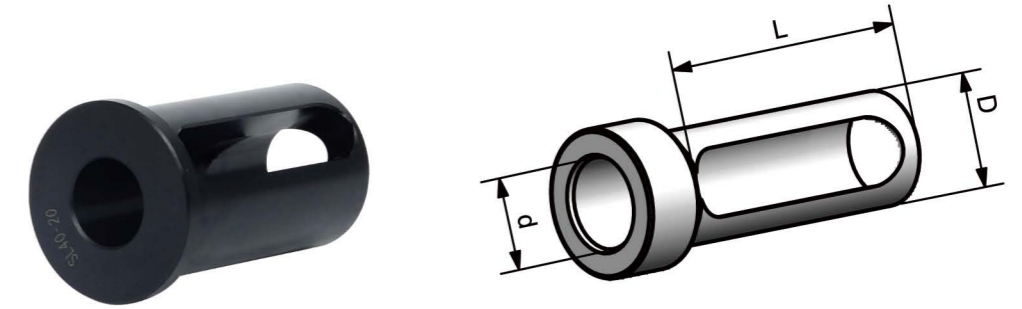
镗刀减径套



Size	d	D	L
SL25-06	6	25	46
SL25-08	8	25	46
SL25-10	10	25	46
SL25-12	12	25	46
SL32-06	6	32	56
SL32-08	8	32	56
SL32-10	10	32	56
SL32-12	12	32	56
SL40-06	6	40	71
SL40-08	8	40	71
SL40-10	10	40	71
SL40-12	12	40	71

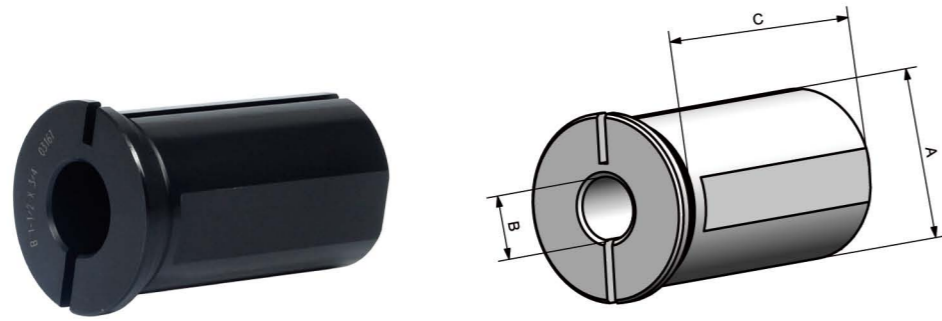
Reduction Sleeve for Boring Bar Holder

镗刀减径套



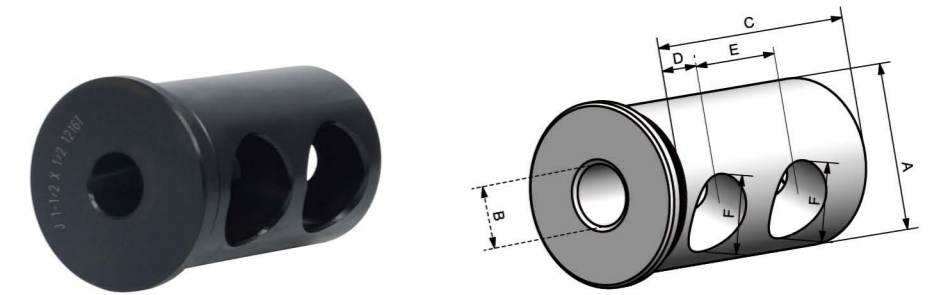
Size	d	D	L
SL25-16	16	25	46
SL25-20	20	25	46
SL32-16	16	32	56
SL32-20	20	32	56
SL32-25	25	32	56
SL40-16	16	40	70
SL40-20	20	40	70
SL40-25	25	40	70
SL40-32	32	40	70

Tool Holder Bushing B Type 车床刀套B型



Size	A(OD)	B(ID)	C
B 3/4"-B	3/4"	1/4 5/16 3/8 1/2	1-1/2
B 1"-B	1"	3/8 1/2 5/8 3/4	1-3/4
B 1-1/4"-B	1-1/4"	3/8 1/2 5/8 3/4 7/8 1	2-1/8
B 1-1/2"-B	1-1/2"	3/8 1/2 5/8 3/4 7/8 1 1-1/4	2-1/2
B 1-3/4"-B	1-3/4"	1/2 5/8 3/4 7/8 1 1-1/4 1-1/2	3
B 2"-B	2"	1/2 5/8 3/4 7/8 1 1-1/4 1-1/2 1-3/4	3-1/2
B 2-1/2"-B	2-1/2"	1/2 5/8 3/4 7/8 1 1-1/4 1-1/2 1-3/4 2 2-1/4	4
B 3"-B	3"	1 1-1/4 1-1/2 1-3/4 2 2-1/4 2-1/2	4-1/2
B 3-1/2"-B	3-1/2"	1 1-1/4 1-1/2 1-3/4 2 2-1/4 2-1/2 3	5-1/4

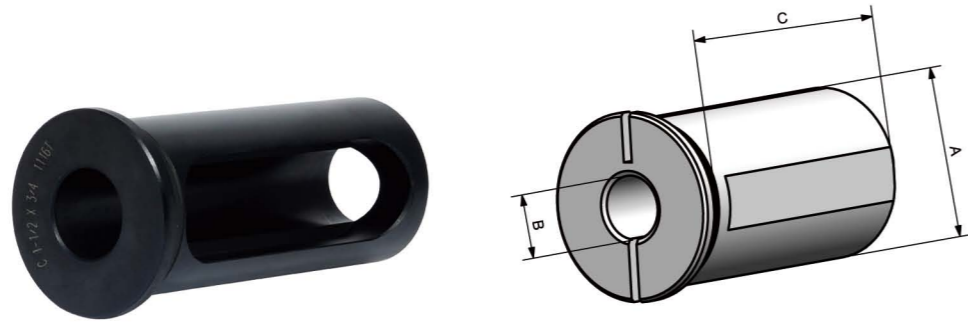
Tool Holder Bushing J Type 车床刀套J型



Size	A(OD)	B(ID)	C	D	E	F	Holes No.
J 3/4"-B	3/4"	1/4 5/16 3/8 1/2	1-1/2	3/9	13/16	3/8	2
J 1"-B	1"	3/8 1/2 5/8 3/4	1-3/4	7/16	7/8	5/8	2
J 1-1/4"-B	1-1/4"	3/8 1/2 5/8 3/4 7/8 1	2-1/8	5/8	1	3/4	2
J 1-1/2"-B	1-1/2"	3/8 1/2 5/8 3/4 7/8 1 1-1/4	2-1/2	11/16	1-1/8	7/8	2
J 1-3/4"-B	1-3/4"	1/2 5/8 3/4 7/8 1 1-1/4 1-1/2	3	3/4	1-1/4	7/8	2
J 2"-B	2"	1/2 5/8 3/4 7/8 1 1-1/4 1-1/2 1-3/4	3-1/2	3/4	1-1/2	1	2
J 2-1/2"-B	2-1/2"	3/4 7/8 1 1-1/4 1-1/2 1-3/4 2 2-1/4	4	7/8	1-3/4	1-1/4	2
J 3"-B	3"	1 1-1/4 1-1/2 1-3/4 2 2-1/4 2-1/2	4-1/2	1	2	1-1/4	4
J 3-1/2"-B	3-1/2"	1 1-1/4 1-1/2 1-3/4 2 2-1/4 2-1/2 3	5-1/4	1-1/4	2-1/2	1-1/4	4

Tool Holder Bushing C Type

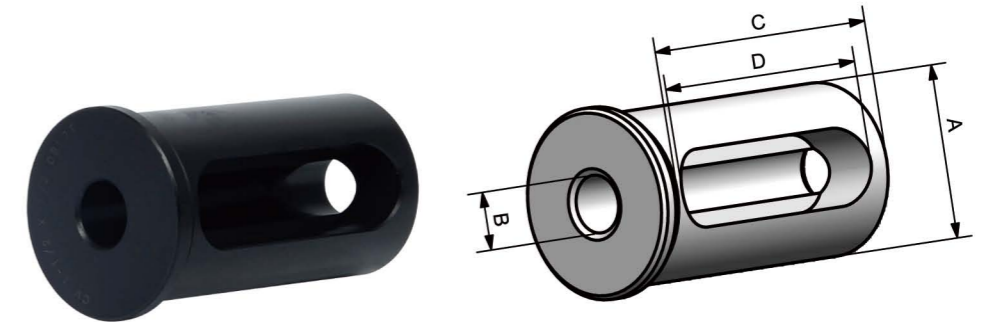
车床刀套C型



Size	A(OD)	B(ID)	C	D	Slots No.
C 3/4"-B	3/4"	1/4 5/16 3/8 1/2	1-1/2	2	1
C 1"-B	1"	1/4 5/16 3/8 1/2 5/8 3/4	2-3/8	2-3/4	1
C 1-1/4"-B	1-1/4"	3/8 1/2 5/8 3/4 7/8 1	2-3/4	3-1/4	1
C 1-1/2"-B	1-1/2"	3/8 1/2 5/8 3/4 7/8 1 1-1/4	3	3-3/8	1
C 1-3/4"-B	1-3/4"	1/2 5/8 3/4 7/8 1 1-1/4 1-1/2	3-1/8	3-1/2	1
C 2"-B	2"	1/2 5/8 3/4 1 1-1/4 1-1/2 1-3/4	3-5/8	4	1
C 2-1/2"-B	2-1/2"	3/4 1 1-1/4 1-1/2 1-3/4 2 2-1/4	4-1/8	4-1/2	1 or 2
C 3"-B	3"	1 1-1/4 1-1/2 1-3/4 2 2-1/4 2-1/2	4-5/8	5	1 or 2
C 3-1/2"-B	3-1/2"	1 1-1/4 1-1/2 1-3/4 2 2-1/4 2-1/2 3	5	5-3/4	1 or 2

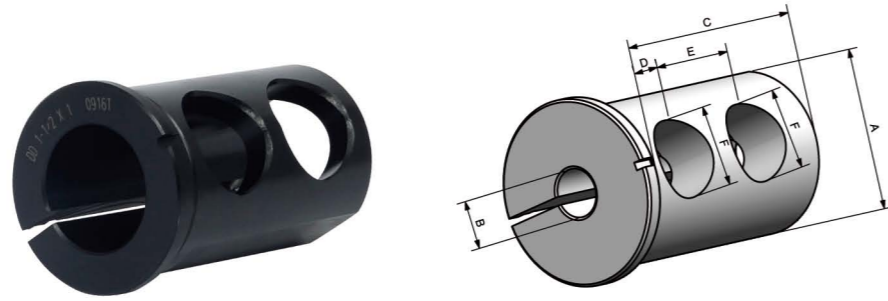
Tool Holder Bushing CV Type

车床刀套CV型



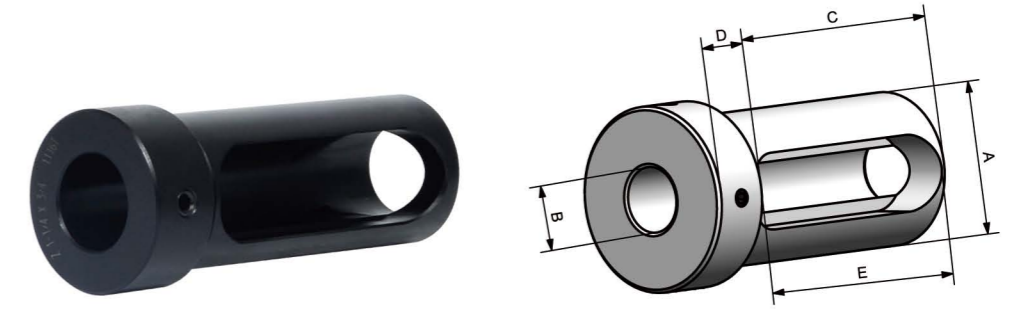
Size	A(OD)	B(ID)	C	D
CV 1-1/4"-B	1-1/4"	1/4 3/8 1/2 5/8 3/4 1	2.36(60mm)	1.97(50mm)
CV 1-1/2"-B	1-1/2"	3/8 1/2 5/8 3/4 1 1-1/4	2.76(70mm)	2.36(60mm)

Tool Holder Bushing DD Type 车床刀套DD型



Size	A(OD)	B(ID)	C	D	E	F	Holes No.
DD 1-1/2"-B	1-1/2"	3/8 1/2 5/8 3/4 7/8 1 1-1/4	2-1/2	11/16	1-1/8	7/8	2
DD 1-3/4"-B	1-3/4"	1/2 5/8 3/4 7/8 1 1-1/4 1-1/2	3	3/4	1-1/4	7/8	2
DD 2"-B	2"	1/2 5/8 3/4 7/8 1 1-1/4 1-1/2 1-3/4	3-1/2	3/4	1-1/2	1	2
DD 2-1/2"-B	2-1/2"	1/2 5/8 3/4 7/8 1 1-1/4 1-1/2 1-3/4 2 2-1/4	4	7/8	1-3/4	1-1/4	2
DD 3"-B	3"	1 1-1/4 1-1/2 1-3/4 2 2-1/4 2-1/2	4-1/2	1	2	1-1/4	4
DD 3-1/2"-B	3-1/2"	1-1/2 1-3/4 2 2-1/4 2-1/2 3	5-1/4	1-1/4	2-1/2	1-1/4	4

Tool Holder Bushing Z Type 车床刀套Z型



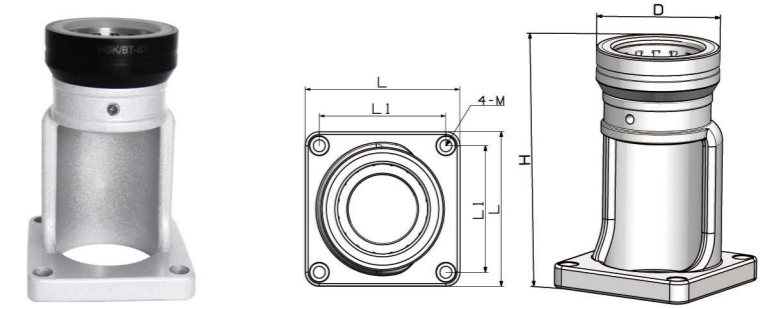
Size	A(OD)	B(ID)	C	D	E
Z 3/4"-B	3/4"	1/4 5/16 3/8 1/2	2-3/8	1/2	2-1/2
Z 1"-B	1"	1/4 5/16 3/8 1/2 5/8 3/4	2-3/8	1/2	2-3/4
Z 1-1/4"-B	1-1/4"	3/8 1/2 5/8 3/4 7/8 1	2-5/8	5/8	3
Z 1-1/2"-B	1-1/2"	3/8 1/2 5/8 3/4 7/8 1 1-1/4	2-7/8	3/4	3-1/4
Z 1-3/4"-B	1-3/4"	1/2 5/8 3/4 7/8 1 1-1/4 1-1/2	3-1/8	3/4	3-1/2
Z 2"-B	2"	1/2 5/8 3/4 1 1-1/4 1-1/2 1-3/4	3-1/2	3/4	3-3/4
Z 2-1/2"-B	2-1/2"	5/8 3/4 7/8 1 1-1/4 1-1/2 1-3/4 2 2-1/4	3-7/8	3/4	4-1/4
Z 3"-B	3"	1 1-1/4 1-1/2 1-3/4 2 2-1/4 2-1/2	4-3/8	3/4	4-3/4
Z 3-1/2"-B	3-1/2"	1-1/4 1-1/2 1-3/4 2 2-1/4 2-1/2 3	4-7/8	1	5-1/2
Z 4"-B	4"	1-1/2 1-3/4 2 2-1/4 2-1/2 3	5-5/8	1	6-1/4

Tool Holder Locking Device 刀柄锁刀座



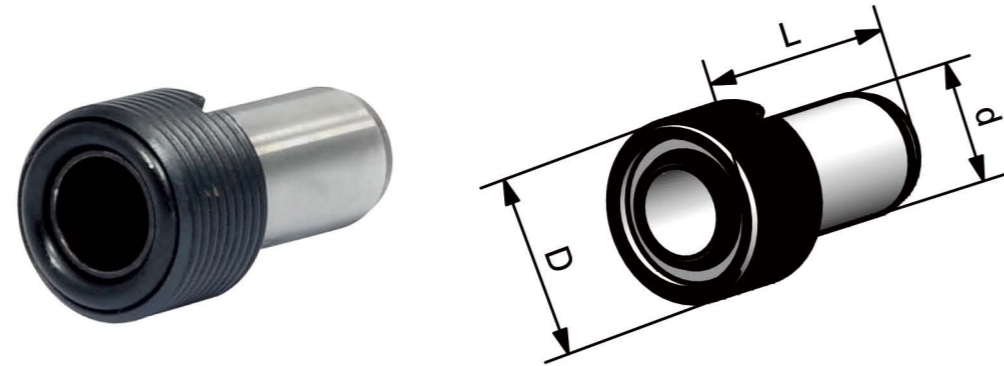
Size	Dimension (mm)	Wt (kg)
BT30	205x98.5x128	3.7
BT40	205x98.5x128	3.8
BT50	275x150x198	11.4

Tool Holder Locking Device (New Type) 新款锁刀座



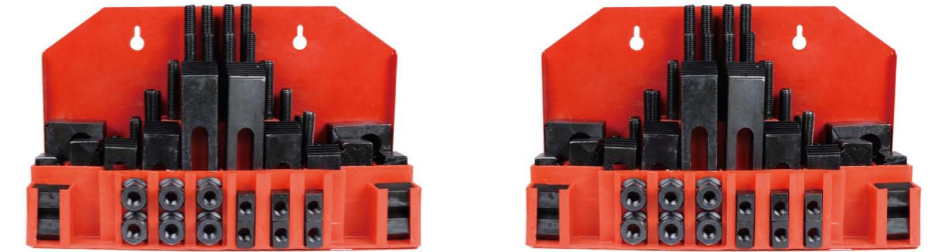
Size	Tool Holder	D	H	L	L1	M
TMS40-32	HSK32, C3	76	165	110	90	M8
TMS40-40	HSK40, C4	76	165	110	90	M8
TMS40-46	BT30	76	165	110	90	M8
TMS40-50	HSK50, SK30, C5	76	165	110	90	M8
TMS40-63	HSK63, BT40, C6	87	172	110	90	M8
TMS40-63.5	CAT40	87	172	110	90	M8
TMS40-63.55	SK40	87	172	110	90	M8
TMS50-80	HSK80, C8	114	215	160	130	M10
TMS50-97.5	SK50	124	219	160	130	M10
TMS50-98.43	CAT50	124	219	160	130	M10
TMS50-100	HSK100	124	219	160	130	M10

HSK Coolant Tube HSK 冷却导管



Size	Tool Holder Size	d	D	L
CT32	HSK32	6	M10×1	26.0
CT40	HSK40	8	M12×1	29.5
CT50	HSK50	10	M16×1	33.0
CT63	HSK63	12	M18×1	34.5
CT80	HSK80	14	M20×1.5	40.0
CT100	HSK100	16	M24×1.5	44.0

Clamping Kits 58 PCS 58件套组合压板



Metric

Size	Wt (kg)	Packing (cm)
M8x10-58 pcs	6.5kg	33x11x20
M10x12-58 pcs	7kg	33x11x20
M12x14-58 pcs	9.5kg	37x11x22
M12x16-58 pcs	10kg	37x11x22
M14x16-58 pcs	12kg	39x11x22
M14x18-58 pcs	12.5kg	39x11x22
M16x18-58 pcs	16kg	39x13x23
M16x20-58 pcs	16.5kg	39x13x23
M18x20-58 pcs	23kg	38x16x29
M20x22-58 pcs	28kg	38x16x29
M22x26-58 pcs	40kg	47x25x29

Inch

Size	Wt (kg)	Packing (cm)
5/16"-18x3/8"	6kg	33x11x20
3/8"-16x7/16"	7kg	33x11x20
3/8"-16x1/2"	7kg	33x11x20
3/8"-16x9/16"	7kg	33x11x20
1/2"-13-9/16"	10kg	37x11x22
1/2"-13-5/8"	10kg	37x11x22
1/2"-13-11/16"	10kg	37x11x22
5/8"-11-11/16"	16kg	39x13x23
5/8"-11-3/4"	16kg	39x13x23
5/8"-11-13/16"	16kg	39x13x23
3/4"-10x7/8"	24kg	38x16x29

Tool Holder Trolley 刀具车



Size	Cabinet Size	Packing Size	Wt (kg)
BT30-36	920 x 475 x 775 mm	700 x 490 x 330 mm	30
BT40-36	920 x 475 x 775 mm	700 x 490 x 330 mm	31
BT50-24	920 x 475 x 775 mm	700 x 490 x 330 mm	32
HSK63-24	920 x 475 x 775 mm	700 x 490 x 330 mm	31

Tool Holder Stand 刀架 (刀柄座)



Size	Cabinet Size	Packing Size	Wt (kg)
BT30-TS-12	495 x 240 x 150 mm	525 x 270 x 180 mm	3.4
BT40-TS-12	495 x 240 x 150 mm	525 x 270 x 180 mm	3.5
BT50-TS-8	495 x 240 x 150 mm	525 x 270 x 180 mm	3.6
HSK63-TS-8	495 x 240 x 150 mm	525 x 270 x 180 mm	3.5

Tool Holder Cabinet 刀具柜



Size	Cabinet Size	Packing Size	Wt (kg)
BT30-TE-54	650 x 405 x 1545 mm	680 x 435 x 1575 mm	53
BT40-TE-54	650 x 405 x 1545 mm	680 x 435 x 1575 mm	54
BT50-TE-36	650 x 405 x 1545 mm	680 x 435 x 1575 mm	55
HSK63-TE-36	650 x 405 x 1545 mm	680 x 435 x 1575 mm	54

Tool Holder Trolley (带抽屉)刀具车



Size	Cabinet Size	Packing Size	Wt (kg)
BT-TH30-54	600 x 600 x 915 mm	630 x 630 x 945 mm	63
BT-TH40-54	600 x 600 x 915 mm	630 x 630 x 945 mm	64
BT-TH50-36	600 x 600 x 915 mm	630 x 630 x 945 mm	65
HSK-TH63-36	600 x 600 x 915 mm	630 x 630 x 945 mm	64

Tool Holder Trolley (带抽屉)刀具车



Size	Cabinet Size	Packing Size	Wt (kg)
BT-TL30-24	600 x 600 x 915 mm	630 x 630 x 945 mm	52
BT-TL40-24	600 x 600 x 915 mm	630 x 630 x 945 mm	53
BT-TL50-16	600 x 600 x 915 mm	630 x 630 x 945 mm	54
HSK-TL63-16	600 x 600 x 915 mm	630 x 630 x 945 mm	53

Tool Holder Trolley (带抽屉)刀具车



Size	Cabinet Size	Packing Size	Wt (kg)
BT-TD30-54	600 x 600 x 1015 mm	630 x 630 x 1045 mm	72
BT-TD40-54	600 x 600 x 1015 mm	630 x 630 x 1045 mm	73
BT-TD50-36	600 x 600 x 1015 mm	630 x 630 x 1045 mm	74
HSK-TD63-36	600 x 600 x 1015 mm	630 x 630 x 1045 mm	73

BORING



BORING

▪ 镗头系统

BRIGHT-TOOLS

Add: Chongde 5th Avenue, Dezhou, Shandong, China

Tel: +86-534-8127522/33/88; +86-534-2356966

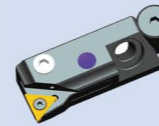
Web: <http://www.bright-tools.com>

Email: sales@bright-tools.com

山东金杰机械有限公司
SHANDONG JINJIE MACHINERY CO., LTD



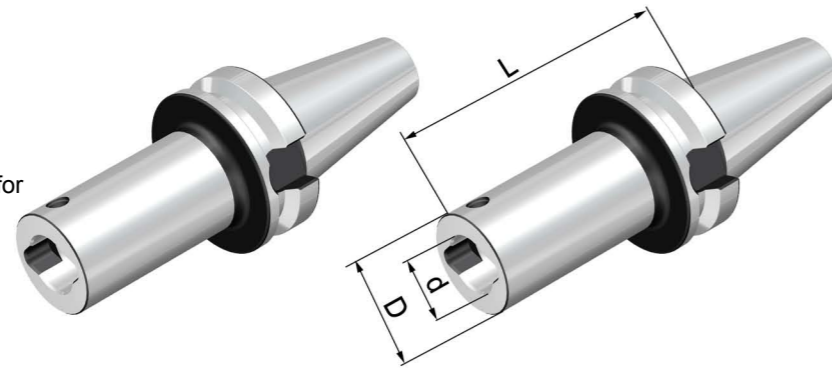
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Boring Tool Holder

镗刀柄

Runout: 0.003 mm
Bore Tolerance: H5
Cooling: AD
Balancing: G6.3/15000 RPM
Usage: connect with boring head for boring operation.

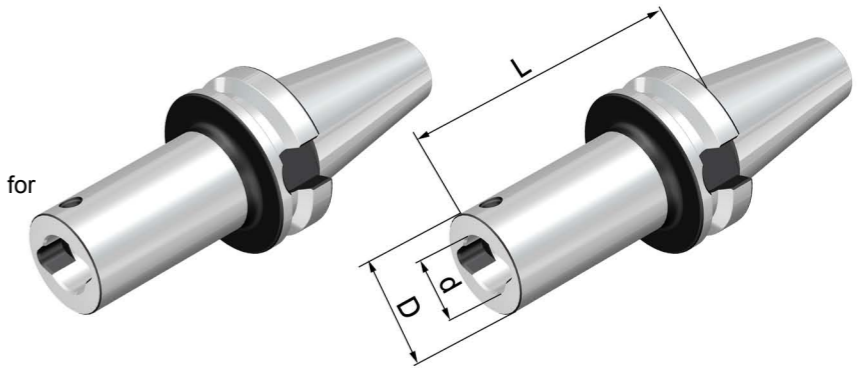

JIS B 6339

Size	CK No.	D	d	L
BT30-CK1-55	CK1	19	11	55
BT30-CK1-70	CK1	19	11	70
BT30-CK2-80	CK2	24	14	80
BT30-CK3-80	CK3	31	18	80
BT30-CK4-70	CK4	39	22	70
BT30-CK5-70	CK5	50	28	70
BT30-CK6-60	CK6	64	36	60
BT40-CK1-70	CK1	19	11	70
BT40-CK1-100	CK1	19	11	100
BT40-CK1-130	CK1	19	11	130
BT40-CK2-75	CK2	24	14	75
BT40-CK2-100	CK2	24	14	100
BT40-CK2-130	CK2	24	14	130
BT40-CK3-80	CK3	31	18	80
BT40-CK3-100	CK3	31	18	100
BT40-CK3-135	CK3	31	18	135
BT40-CK3-165	CK3	31	18	165
BT40-CK4-70	CK4	39	22	70
BT40-CK4-100	CK4	39	22	100
BT40-CK4-150	CK4	39	22	150
BT40-CK4-170	CK4	39	22	170
BT40-CK5-80	CK5	50	28	80
BT40-CK5-150	CK5	50	28	150
BT40-CK5-180	CK5	50	28	180
BT40-CK6-100	CK6	64	36	100
BT40-CK6-150	CK6	64	36	150
BT40-CK6-180	CK6	64	36	180

Boring Tool Holder

镗刀柄

Runout: 0.003 mm
Bore Tolerance: H5
Cooling: AD
Balancing: G6.3/15000 RPM
Usage: connect with boring head for boring operation.

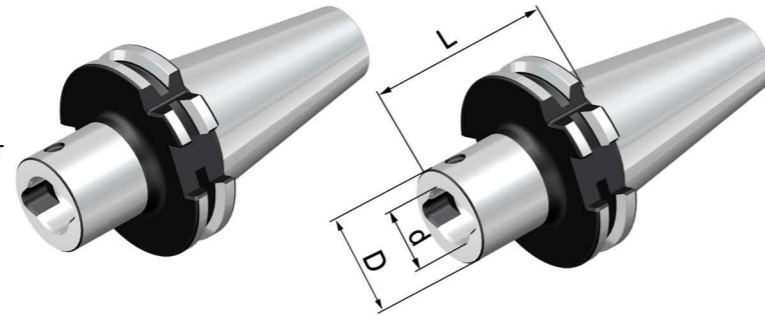

JIS B 6339

Size	CK No.	D	d	L
BT50-CK1-80	CK1	19	11	80
BT50-CK1-115	CK1	19	11	115
BT50-CK1-145	CK1	19	11	145
BT50-CK2-80	CK2	24	14	80
BT50-CK2-105	CK2	24	14	105
BT50-CK2-135	CK2	24	14	135
BT50-CK2-165	CK2	24	14	165
BT50-CK3-85	CK3	31	18	85
BT50-CK3-110	CK3	31	18	110
BT50-CK3-140	CK3	31	18	140
BT50-CK3-170	CK3	31	18	170
BT50-CK4-100	CK4	39	22	100
BT50-CK4-160	CK4	39	22	160
BT50-CK4-205	CK4	39	22	205
BT50-CK5-90	CK5	50	28	90
BT50-CK5-165	CK5	50	28	165
BT50-CK5-210	CK5	50	28	210
BT50-CK5-270	CK5	50	28	270
BT50-CK6-85	CK6	64	36	85
BT50-CK6-155	CK6	64	36	155
BT50-CK6-215	CK6	64	36	215
BT50-CK6-250	CK6	64	36	250
BT50-CK6-300	CK6	64	36	300
BT50-CK6-350	CK6	64	36	350
BT50-CK7-85	CK7	90	46	85
BT50-CK7-100	CK7	90	46	100
BT50-CK7-180	CK7	90	46	180
BT50-CK7-250	CK7	90	46	250
BT50-CK7-320	CK7	90	46	320
BT50-CK7-350	CK7	90	46	350

Boring Tool Holder

镗刀柄

Runout: 0.003 mm
Bore Tolerance: H5
Cooling: AD
Balancing: G6.3/15000 RPM
Usage: connect with boring head for boring operation.



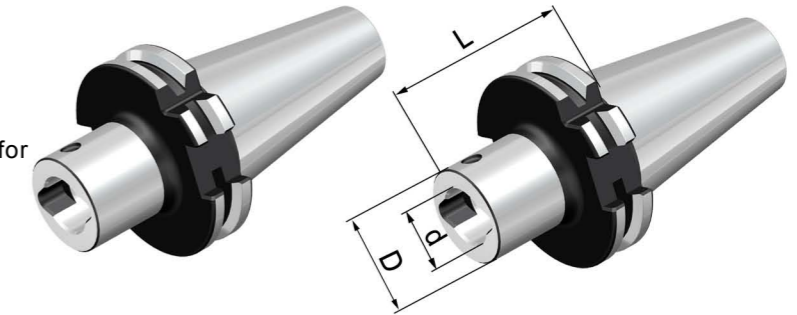
DIN 69871

Size	CK No.	D	d	L
SK30-CK1-70	CK1	19	11	70
SK30-CK2-70	CK2	24	14	70
SK30-CK3-75	CK3	31	18	75
SK30-CK4-50	CK4	39	22	50
SK30-CK5-50	CK5	50	28	50
SK30-CK6-60	CK6	64	36	60
SK40-CK1-70	CK1	19	11	70
SK40-CK1-100	CK1	19	11	100
SK40-CK2-50	CK2	24	14	50
SK40-CK2-100	CK2	24	14	100
SK40-CK3-50	CK3	31	18	50
SK40-CK3-100	CK3	31	18	100
SK40-CK3-135	CK3	31	18	135
SK40-CK3-165	CK3	31	18	165
SK40-CK4-50	CK4	39	22	20
SK40-CK4-100	CK4	39	22	100
SK40-CK4-150	CK4	39	22	150
SK40-CK5-80	CK5	50	28	50
SK40-CK5-100	CK5	50	28	100
SK40-CK5-150	CK5	50	28	150
SK40-CK5-180	CK5	50	28	180
SK40-CK6-90	CK6	64	36	90
SK40-CK6-150	CK6	64	36	150
SK40-CK6-180	CK6	64	36	180
SK40-CK7-100	CK7	90	46	100

Boring Tool Holder

镗刀柄

Runout: 0.003 mm
Bore Tolerance: H5
Cooling: AD
Balancing: G6.3/15000 RPM
Usage: connect with boring head for boring operation.



DIN 69871

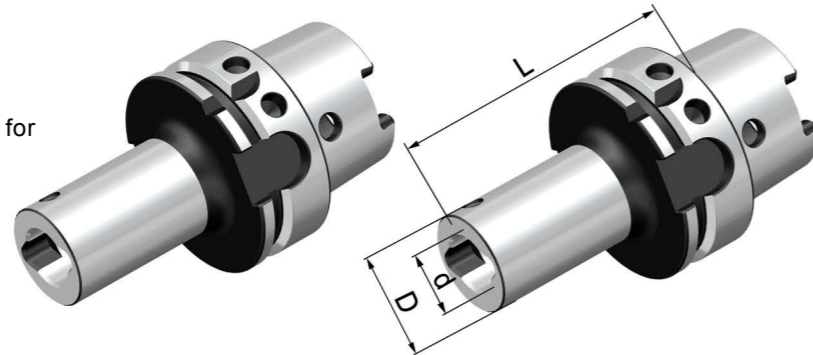
Size	CK No.	D	d	L
SK50-CK1-80	CK1	19	11	80
SK50-CK2-80	CK2	24	14	80
SK50-CK2-105	CK2	24	14	105
SK50-CK2-135	CK2	24	14	135
SK50-CK2-165	CK2	24	14	165
SK50-CK3-85	CK3	31	18	85
SK50-CK3-110	CK3	31	18	110
SK50-CK3-140	CK3	31	18	140
SK50-CK3-170	CK3	31	18	170
SK50-CK4-70	CK4	39	22	70
SK50-CK4-100	CK4	39	22	100
SK50-CK4-160	CK4	39	22	160
SK50-CK4-200	CK4	39	22	200
SK50-CK5-90	CK5	50	28	90
SK50-CK5-160	CK5	50	28	160
SK50-CK5-210	CK5	50	28	210
SK50-CK5-250	CK5	50	28	250
SK50-CK6-85	CK6	64	36	85
SK50-CK6-160	CK6	64	36	160
SK50-CK6-200	CK6	64	36	200
SK50-CK6-250	CK6	64	36	250
SK50-CK6-300	CK6	64	36	300
SK50-CK7-85	CK7	90	46	85
SK50-CK7-150	CK7	90	46	150
SK50-CK7-210	CK7	90	46	210
SK50-CK7-250	CK7	90	46	250
SK50-CK7-300	CK7	90	46	300
SK50-CK7-350	CK7	90	46	350

Boring Tool Holder

镗刀柄

DIN 69893
ISO 12164

Runout: 0.003 mm
Bore Tolerance: H5
Balancing: G2.5/25000 RPM
Usage: connect with boring head for boring operation.



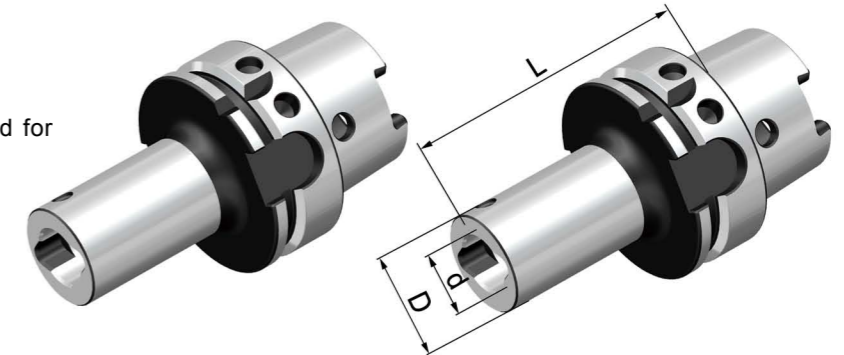
Size	CK No.	D	d	L
HSK40A-CK1-75	CK1	19	11	75
HSK40A-CK2-85	CK2	24	14	85
HSK40A-CK3-80	CK3	31	18	80
HSK40A-CK4-75	CK4	39	22	75
HSK50A-CK1-75	CK1	19	11	75
HSK50A-CK2-85	CK2	24	14	85
HSK50A-CK3-80	CK3	31	18	80
HSK50A-CK4-75	CK4	39	22	75
HSK50A-CK5-85	CK5	50	28	85

Boring Tool Holder

镗刀柄

DIN 69893
ISO 12164

Runout: 0.003 mm
Bore Tolerance: H5
Balancing: G2.5/25000 RPM
Usage: connect with boring head for boring operation.

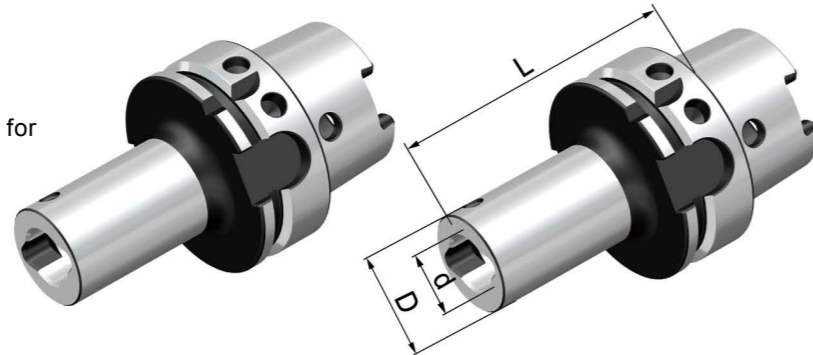


Size	CK No.	D	d	L
HSK63A-CK1-70	CK1	19	11	70
HSK63A-CK1-100	CK1	19	11	100
HSK63A-CK2-75	CK2	24	14	75
HSK63A-CK2-100	CK2	24	14	100
HSK63A-CK2-130	CK2	24	14	130
HSK63A-CK3-80	CK3	31	18	80
HSK63A-CK3-100	CK3	31	18	100
HSK63A-CK3-135	CK3	31	18	135
HSK63A-CK3-165	CK3	31	18	165
HSK63A-CK4-70	CK4	39	22	70
HSK63A-CK4-100	CK4	39	22	100
HSK63A-CK4-150	CK4	39	22	150
HSK63A-CK4-170	CK4	39	22	170
HSK63A-CK5-80	CK5	50	28	80
HSK63A-CK5-100	CK5	50	28	100
HSK63A-CK5-150	CK5	50	28	150
HSK63A-CK5-180	CK5	50	28	180
HSK63A-CK6-100	CK6	64	36	100
HSK63A-CK6-150	CK6	64	36	150
HSK63A-CK6-180	CK6	64	36	180

Boring Tool Holder 镗刀柄

DIN 69893
ISO 12164

Runout: 0.003 mm
Bore Tolerance: H5
Balancing: G2.5/25000 RPM
Usage: connect with boring head for boring operation.

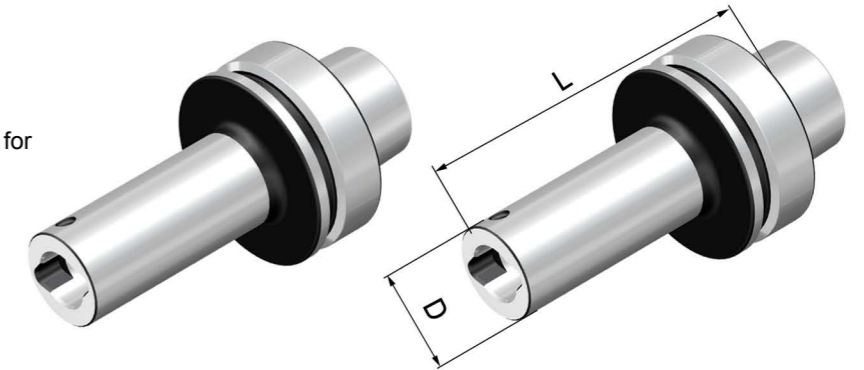


Size	CK No.	D	d	L
HSK100A-CK1-115	CK1	19	11	115
HSK100A-CK1-145	CK1	19	11	145
HSK100A-CK2-105	CK2	24	14	105
HSK100A-CK2-135	CK2	24	14	135
HSK100A-CK2-165	CK2	24	14	165
HSK100A-CK3-110	CK3	31	18	110
HSK100A-CK3-140	CK3	31	18	140
HSK100A-CK3-170	CK3	31	18	170
HSK100A-CK4-100	CK4	39	22	100
HSK100A-CK4-160	CK4	39	22	160
HSK100A-CK4-205	CK4	39	22	205
HSK100A-CK5-90	CK5	50	28	90
HSK100A-CK5-165	CK5	50	28	165
HSK100A-CK5-210	CK5	50	28	210
HSK100A-CK5-270	CK5	50	28	270
HSK100A-CK6-85	CK6	64	36	85
HSK100A-CK6-155	CK6	64	36	155
HSK100A-CK6-215	CK6	64	36	215
HSK100A-CK6-250	CK6	64	36	250
HSK100A-CK6-300	CK6	64	36	300

Boring Tool Holder 镗刀柄

DIN 69893
ISO 12164

Runout: 0.003 mm
Bore Tolerance: H5
Balancing: G2.5/25000 RPM
Usage: connect with boring head for boring operation.

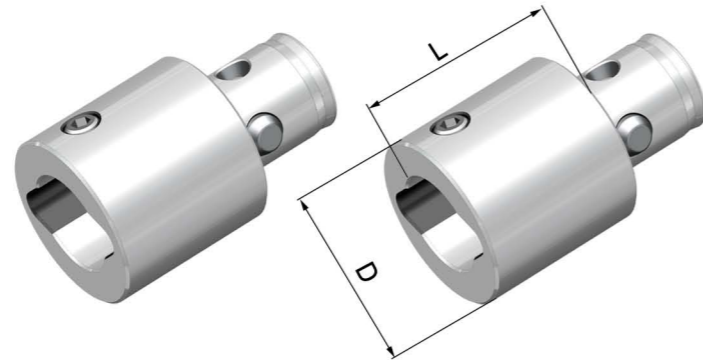


Size	CK No.	D	L
HSK63F-CK1-78	CK1	19	77.5
HSK63F-CK2-90	CK2	24	89.5
HSK63F-CK3-100	CK3	31	100
HSK63F-CK4-93	CK4	39	93
HSK63F-CK5-83	CK5	50	83

Boring Tool Holder Extension

CK 刀柄延长器

Usage: connect boring tool holder and boring head, to extend the working depth.

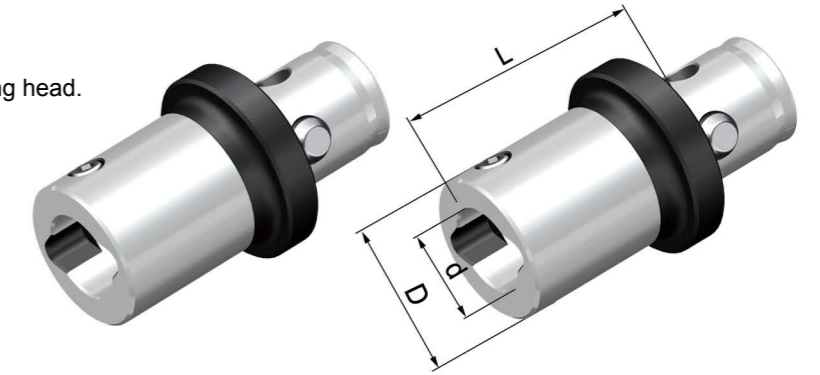


Size	CK No.	D	L
CK11-20	CK1	19	20
CK11-30	CK1	19	30
CK22-30	CK2	24	30
CK22-45	CK2	24	45
CK33-30	CK3	31	30
CK33-45	CK3	31	45
CK44-45	CK4	39	45
CK44-60	CK4	39	60
CK55-60	CK5	50	60
CK55-90	CK5	50	90
CK66-60	CK6	64	60
CK66-100	CK6	64	100
CK77-105	CK7	90	105

Boring Tool Holder Reducer

CK 刀柄减径套

Usage: to connect with small size boring head.



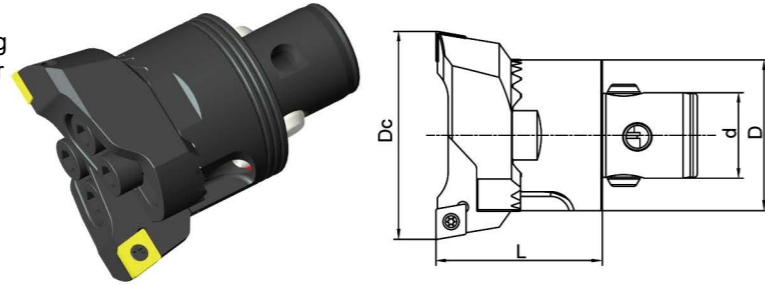
Size	CK No.1	CK No.2	D1	D2	L
CK21- 65	CK2	CK1	24	19	36
CK31- 60	CK3	CK1	31	19	40.5
CK32- 60	CK3	CK2	31	24	34.5
CK41- 75	CK4	CK1	39	19	57.5
CK42- 75	CK4	CK2	39	24	51.5
CK43- 75	CK4	CK3	39	31	47
CK51- 70	CK5	CK1	50	19	57.5
CK52- 70	CK5	CK2	50	24	51.5
CK52-100	CK5	CK2	50	24	81.5
CK53- 70	CK5	CK3	50	31	47
CK53-100	CK5	CK3	50	31	88
CK54- 70	CK5	CK4	50	39	40
CK54-100	CK5	CK4	50	39	70
CK61- 65	CK6	CK1	64	19	66.5
CK62- 80	CK6	CK2	64	24	60.6
CK62-115	CK6	CK2	64	24	95.5
CK63- 80	CK6	CK3	64	31	56
CK63-115	CK6	CK3	64	31	91
CK64- 80	CK6	CK4	64	39	49
CK64-115	CK6	CK4	64	39	84
CK65- 80	CK6	CK5	64	50	39
CK65-115	CK6	CK5	64	50	74
CK76-160	CK7	CK6	90	64	106

Twin Cutter Rough Boring Head

双刃粗镗刀(装CC刀片)

Cooling: boring head with internal cooling

Usage: connect with boring tool holder for rough boring operation.



Boring Head Size	Dc	D	d	L	CK No.	Insert Seat Size	Insert	Screw	Key
CK1-R2026-33	20-26	19	11	33	CK1	2026-CC06	CC..0602	M2.5X6	T8
CK2-R2533-36	25-33	24	14	36	CK2	2533-CC06	CC..0602	M2.5X6	T8
CK3-R3242-40	32-42	31	18	40	CK3	3242-CC09	CC..09T3	M3.5X9	T15
CK4-R4154-47	41-54	39	22	47	CK4	4154-CC09	CC..09T3	M3.5X9	T15
CK5-R5370-58	53-70	50	28	58	CK5	5370-CC12	CC..1204	M5X12	T20
CK6-R68110-72	68-90	64	36	72	CK6	6890-CC12	CC..1204	M5X12	T20
CK6-R68110-72	88-110	64	36	72	CK6	88110-CC12	CC..1204	M5X12	T20
CK6-R98153-72	98-126	64	36	72	CK6	98126-CC12	CC..1204	M5X12	T20
CK6-R98153-72	125-153	64	36	72	CK6	125153-CC12	CC..1204	M5X12	T20
CK6-R148203-72	148-176	64	36	72	CK6	148176-CC12	CC..1204	M5X12	T20
CK6-R148203-72	175-203	64	36	72	CK6	175203-CC12	CC..1204	M5X12	T20
CK7-R98153-87	98-126	90	46	87	CK7	98126-CC12	CC..1204	M5X12	T20
CK7-R98153-87	125-153	90	46	87	CK7	125153-CC12	CC..1204	M5X12	T20
CK7-R148203-117	148-176	90	46	117	CK7	148176-CC12	CC..1204	M5X12	T20
CK7-R148203-117	175-203	90	46	117	CK7	175203-CC12	CC..1204	M5X12	T20

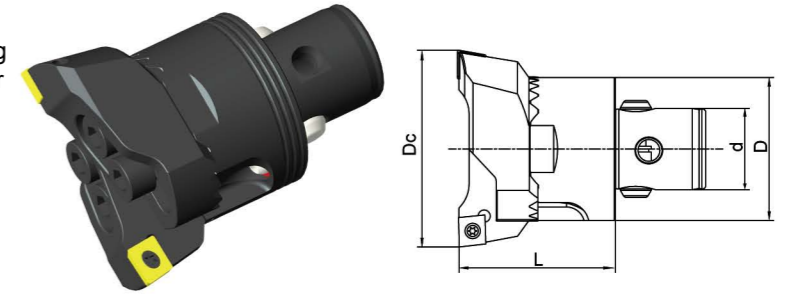
Delivery: inserts excluded, please purchase separately.
Please specify boring head and insert seat size.

Twin Cutter Rough Boring Head

双刃粗镗刀(装SC刀片)

Cooling: boring head with internal cooling

Usage: connect with boring tool holder for rough boring operation.



Boring Head Size	Dc	D	d	L	CK No.	Insert Seat Size	Insert	Screw	Key
CK1-R2026-33	20-26	19	11	33	CK1	2026-SC06	SC..0602	M2.5X6	T8
CK2-R2533-36	25-33	24	14	36	CK2	2533-SC06	SC..0602	M2.5X6	T8
CK3-R3242-40	32-42	31	18	40	CK3	3242-SC09	SC..09T3	M3.5X9	T15
CK4-R4154-47	41-54	39	22	47	CK4	4154-SC09	SC..09T3	M3.5X9	T15
CK5-R5370-58	53-70	50	28	58	CK5	5370-SC12	SC..1204	M5X12	T20
CK6-6890-SC12-72	68-90	64	36	72	CK6	6890-SC12	SC..1204	M5X12	T20
CK6-88110-SC12-72	88-110	64	36	72	CK6	88110-SC12	SC..1204	M5X12	T20
CK6-98126-SC12-72	98-126	64	36	72	CK6	98126-SC12	SC..1204	M5X12	T20
CK6-125153-SC12-72	125-153	64	36	72	CK6	125153-SC12	SC..1204	M5X12	T20
CK6-148176-SC12-72	148-176	64	36	72	CK6	148176-SC12	SC..1204	M5X12	T20
CK6-175203-SC12-72	175-203	64	36	72	CK6	175203-SC12	SC..1204	M5X12	T20
CK7-98126-SC12-87	98-126	90	46	87	CK7	98126-SC12	SC..1204	M5X12	T20
CK7-125153-SC12-87	125-153	90	46	87	CK7	125153-SC12	SC..1204	M5X12	T20
CK7-148176-SC12-117	148-176	90	46	117	CK7	148176-SC12	SC..1204	M5X12	T20
CK7-175203-SC12-117	175-203	90	46	117	CK7	175203-SC12	SC..1204	M5X12	T20

Delivery: inserts excluded, please purchase separately.
Please specify boring head and insert seat size.

Bridge Boring Tool Holder 桥镗刀柄

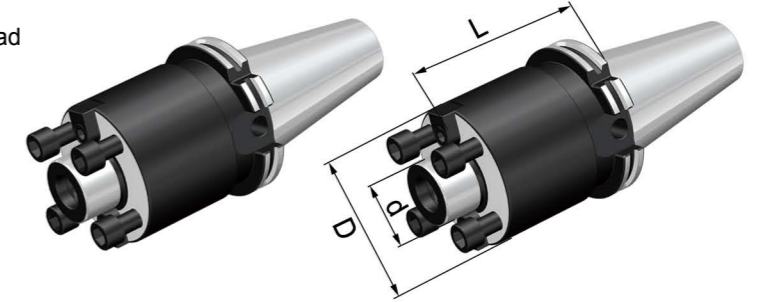
Usage: used with large diameter boring head for boring operation.
Or use face mill holder to replace.



Size	D	d	L
BT40-BR32-60	100	32	60
BT50-BR32-100	100	32	100
BT50-BR32-150	100	32	150
BT50-BR32-200	100	32	200
BT50-BR32-250	100	32	250
BT50-BR32-300	100	32	300
BT50-BR40-100	136	40	100
BT50-BR40-250	136	40	250

Bridge Boring Tool Holder 桥镗刀柄

Usage: used with large diameter boring head for boring operation.
Or use face mill holder to replace.

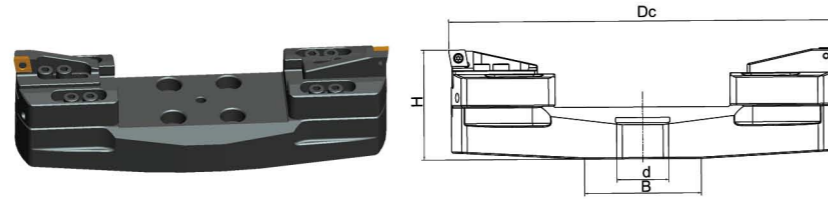


Size	D	d	L
SK40-BR32-60	100	32	60
SK50-BR32-100	100	32	100
SK50-BR32-150	100	32	150
SK50-BR32-200	100	32	200
SK50-BR32-250	100	32	250
SK50-BR32-300	100	32	300
SK50-BR40-100	136	40	100
SK50-BR40-250	136	40	250

Bridge Rough Boring Head

桥式双刃粗糖刀

Usage: used with boring tool holder for large diameter rough boring.



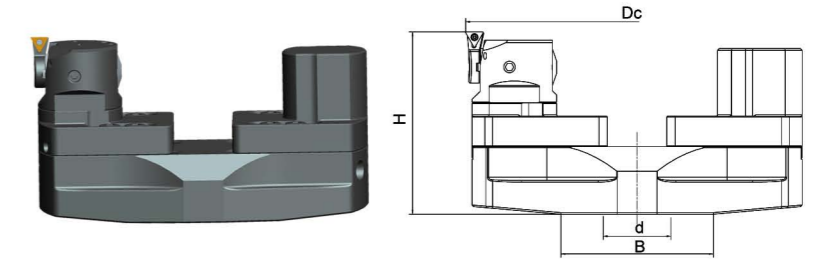
Boring Head Size	Dc	H	d	B	Bridge	Clamp Base	Insert Seat Size
BR200300-40R	200-300	85	40	88	200300.40R	BR7080-28	BR28-15-CC12
BR300400-40R	300-400	85	40	88	300400.40R	BR7080-28	BR28-15-CC12
BR400500-60R	400-500	90	60	130	400500.60R	BR7080-28	BR28-15-CC12
BR500600-60R	500-600	95	60	130	500600.60R	BR7080-28	BR28-15-CC12
BR600700-60R	600-700	100	60	130	600700.60R	BR7080-28	BR28-15-CC12

Delivery: inserts excluded, please purchase separately.

Bridge Fine Boring Head

桥式精糖刀

Usage: used with boring tool holder for large diameter fine boring.



Boring Head Size	Dc	H	d	B	Bridge	Clamp Base	Balance Weight	Insert Seat Size
BF200300-40R	200-300	107	40	88	200300.40R	BF7080-34	BF7080-66	F5-1
BF300400-40R	300-400	107	40	88	300400.40R	BF7080-34	BF7080-66	F5-1
BF400500-60R	400-500	112	60	130	400500.60R	BF7080-34	BF7080-66	F5-2
BF500600-60R	500-600	117	60	130	500600.60R	BF7080-34	BF7080-66	F5-2
BF600700-60R	600-700	121	60	130	600700.60R	BF7080-34	BF7080-66	F5-3

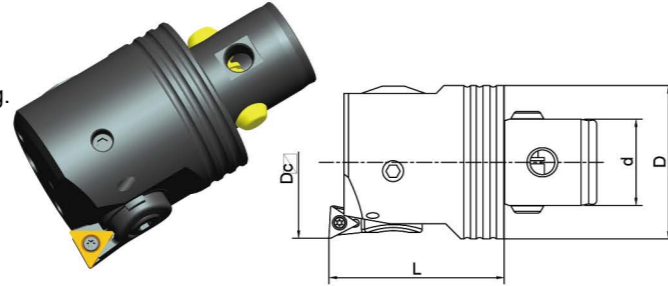
Delivery: insert excluded, please purchase separately.

Fine Boring Head 精镗头

Div: 0.01mm

Cooling: boring head with internal cooling

Usage: connect with boring tool holder for fine boring.



Boring Head Size	Dc	D	d	L	CK No.	Insert Seat Size	Insert
CK1-F2036-33	20-26	19	11	33	CK1	F1-1	TP08
CK1-F2036-33	25-31	19	11	33	CK1	F1-2	TP08
CK1-F2036-33	30-36	19	11	33	CK1	F1-3	TP08
CK2-F2547-36	25-33	24	14	36	CK2	F2-1	TP08
CK2-F2547-36	32-40	24	14	36	CK2	F2-2	TP08
CK2-F2547-36	39-47	24	14	36	CK2	F2-3	TP08
CK3-F3260-40	32-42	31	18	40	CK3	F3-1	TP08
CK3-F3260-40	41-51	31	18	40	CK3	F3-2	TP08
CK3-F3260-40	50-60	31	18	40	CK3	F3-3	TP08
CK4-F4166-46	41-54	39	22	46	CK4	F4-1	TC11
CK4-F4166-46	50-63	39	22	46	CK4	F4-2	TC11
CK4-F4166-46	61-74	39	22	46	CK4	F4-3	TC11
CK5-F5395-57	53-70	50	28	57	CK5	F5-1	TC11
CK5-F5395-57	65-82	50	28	57	CK5	F5-2	TC11
CK5-F5395-57	78-95	50	28	57	CK5	F5-3	TC11
CK6-F68150-71	68-100	64	36	71	CK6	F6-1	TC11
CK6-F68150-71	94-126	64	36	71	CK6	F6-2	TC11
CK6-F68150-71	118-150	64	36	71	CK6	F6-3	TC11
CK6-F100203-71	100-153	64	36	71	CK6	F6-1	TC11
CK6-F100203-71	126-179	64	36	71	CK6	F6-2	TC11
CK6-F100203-71	150-203	64	36	71	CK6	F6-3	TC11
CK7-F100203-71	100-153	90	46	117	CK7	F6-1	TC11
CK7-F100203-71	126-179	90	46	117	CK7	F6-2	TC11
CK7-F100203-71	150-203	90	46	117	CK7	F6-3	TC11

Delivery:

F*-1 insert seat is included, please order F*-2 and F*-3 separately.
Insert excluded, please purchase separately.

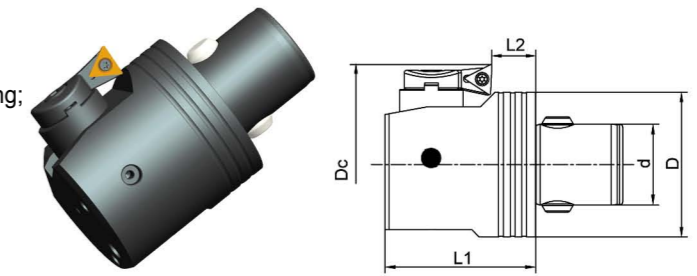
Fine Back Boring Head 反向精镗头

Div: 0.01mm

Cooling: boring head with internal cooling

Usage: connect with boring tool holder for fine boring;

Rotation becomes reverse when back boring.



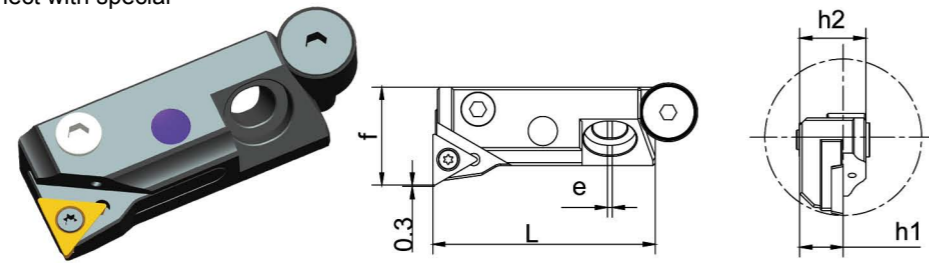
Boring Head Size	Dc	D	d	L1	L2	CK No.	Insert Seat Size	Insert
CK1-FB2036-33	31-31	19	11	33	10.5	CK1	F1-2	TP08
CK1-FB2036-33	30-36	19	11	33	10.5	CK1	F1-3	TP08
CK2-FB2547-36	36-40	24	14	36	11.5	CK2	F2-2	TP08
CK2-FB2547-36	39-47	24	14	36	11.5	CK2	F2-3	TP08
CK3-FB3260-40	46-51	31	18	40	10	CK3	F3-2	TP08
CK3-FB3260-40	50-60	31	18	40	10	CK3	F3-3	TP08
CK4-FB4166-46	53-63	39	22	46	14	CK4	F4-2	TC11
CK4-FB4166-46	61-74	39	22	46	14	CK4	F4-3	TC11
CK5-FB5395-57	62-70	50	28	57	19	CK5	F5-1	TC11
CK5-FB5395-57	65-82	50	28	57	19	CK5	F5-2	TC11
CK5-FB5395-57	78-95	50	28	57	19	CK5	F5-3	TC11
CK6-FB68150-71	80-100	64	36	71	22	CK6	F6-1	TC11
CK6-FB68150-71	94-126	64	36	71	22	CK6	F6-2	TC11
CK6-FB68150-71	118-150	64	36	71	22	CK6	F6-3	TC11
CK6-FB100203-71	112-153	64	36	71	22	CK6	F6-1	TC11
CK6-FB100203-71	126-179	64	36	71	22	CK6	F6-2	TC11
CK6-FB100203-71	150-203	64	36	71	22	CK6	F6-3	TC11
CK7-FB100203-71	112-153	90	46	71	38	CK7	F6-1	TC11
CK7-FB100203-71	126-179	90	46	71	38	CK7	F6-2	TC11
CK7-FB100203-71	150-203	90	46	71	38	CK7	F6-3	TC11

Delivery:

Insert excluded, please purchase separately.

Small Fine Boring Head 精镗小刀夹

Usage: mainly used to connect with special tool holders.



Size	Degree	Dmin	L	h1	h2	e	f	r	Insert
DF-1695L-CC06	95	28	45.5	8.8	13.5	1	16	0.4	CC..0602..
DF-1695R-CC06	95	28	45.5	8.8	13.5	1	16	0.4	CC..0602..
DF-1695L-TP09	95	28	45.5	8.8	13.5	1	16	0.4	TP..0902..
DF-1695R-TP09	95	28	45.5	8.8	13.5	1	16	0.4	TP..0902..
DF-2095L-TC11	95	36	45.5	8.8	13.5	1	20	0.4	TC..1102..
DF-2095R-TC11	95	36	45.5	8.8	13.5	1	20	0.4	TC..1102..
DF-1690L-CC06	90	28	45.5	8.8	13.5	1	16	0.4	CC..0602..
DF-1690R-CC06	90	28	45.5	8.8	13.5	1	16	0.4	CC..0602..
DF-1690L-TP09	90	28	45.5	8.8	13.5	1	16	0.4	TP..0902..
DF-1690R-TP09	90	28	45.5	8.8	13.5	1	16	0.4	TP..0902..
DF-2090L-TC11	90	36	45.5	8.8	13.5	1	20	0.4	TC..1102..
DF-2090R-TC11	90	36	45.5	8.8	13.5	1	20	0.4	TC..1102..

Delivery: insert excluded, please purchase separately.

PRECISION MACHINING



Bright-tools

PRECISION MACHINING

▪ 非标定制

BRIGHT-TOOLS

Add: Chongde 5th Avenue, Dezhou, Shandong, China

Tel: +86-534-8127522/33/88; +86-534-2356966

Web: <http://www.bright-tools.com>

Email: sales@bright-tools.com

山东金杰机械有限公司
SHANDONG JINJIE MACHINERY CO., LTD



Bright-Tools

企业展示
Enterprise display



山东金杰机械有限公司
SHANDONG JINJIE MACHINERY CO., LTD



生产设备
Production equipment



检测设备
Detection equipment



生产
车间及
机器等
Manufacturing Shops and Machines



Main Manufacturing Procedure	主要加工步骤
• Drilling	• 钻
• Turning	• 车
• Milling	• 铣
• Grinding	• 磨
• Heat Treatment	• 热处理
• Surface Treatment	• 表面处理
• Assembling	• 组装
• Packing	• 包装

Machining Capabilities

CNC TURNING SERVICES SPECIFICATIONS

Machines	CNC Lathes
Runout	0.001 mm
Max Part Dia.	400 mm
Max Part Length	650 mm
Machine Fixturing	Three-jaw chuck; Four-jaw chuck

CNC MILLING SERVICES SPECIFICATIONS

Machines	Machining Centers
Runout	0.001 mm
CNC Max Part Length	800 mm
CNC Max Part Width	500 mm
CNC Max Part Depth	500 mm

GRINDING SERVICES SPECIFICATIONS

Machines	Cylindrical, Internal and Surface Grinding Machines
Cylindrical Grinding Machine Runout	0.001 mm
Cylindrical Grinding Max Part Dia.	200 mm
Cylindrical Grinding Max Part Length	1000 mm
Internal Grinding Machine Runout	0.001 mm
Internal Grinding Max Part Dia.	100 mm
Internal Grinding Max Part Length	500 mm
Internal Grinding Max Part Depth	150 mm
Surface Grinding Machine Runout	0.005 mm
Surface Grinding Max Part Length	400 mm
Surface Grinding Max Part Width	250 mm
Surface Grinding Max Part Height	400 mm

SECONDARY SERVICES OFFERED

Heat Treatment	Engineers are capable of designing heat treatment cycles for Annealing, Normalizing, Hardening, tempering, carburizing, etc.
Surface Treatment	Blackening; Plating; Sandblasting, etc.

加工能力及范围

车削技术参数

机器设备	数控车床
机床精度	0.001 mm
工件最大加工直径	400 mm
工件最大加工长度	650 mm
机床夹具配置	三爪；四爪

铣削技术参数

机器设备	加工中心
机床精度	0.001 mm
工件最大加工直径	800 mm
工件最大加工宽度	500 mm
工件最大加工深度	500 mm

磨削技术参数

机器设备	外圆磨床；内孔磨床；平面磨床
外圆磨床精度	0.001 mm
外圆磨床工件最大加工直径	200 mm
外圆磨床工件最大加工长度	1000 mm
内圆磨床精度	0.001 mm
内圆磨床工件最大加工直径	100 mm
内圆磨床工件最大加工长度	500 mm
内圆磨床工件最大加工深度	150 mm
平面磨床精度	0.005 mm
平面磨床工件最大加工长度	400 mm
平面磨床工件最大加工宽度	250 mm
平面磨床工件最大加工高度	400 mm

其他服务

热处理	工程师有能力编排热处理相关工艺，如退火、正火、淬火、回火、调质、渗碳等。
表面处理	发黑、电镀、喷砂等等

CNC Machining Service Procedures

CNC Machining Service Procedures	
INQUIRY	Detailed information are required for quotation as company details, drawings, order quantity, delivery time, etc.
QUOTATION	Calculate the cost and quote.
ADVANCE PAYMENT	Make PI for payment after received purchaser order.
MANUFACTURING	Redraw and assign manufacturing tasks; quality control during the whole process.
FINAL Q.C.	Final quality inspection according to C=0 AQL=4%
BALANCE PAYMENT	Balance Payment is required before shipment.
PACKING & SHIPPING	Pack and ship according to customers' requirements.
DOCUMENTS & LOGISTICS	Provide shipping documents after shipment.

机械加工下单流程

机械加工下单流程	
询价	客户提供公司信息、图纸、订货量、交期等信息
报价	计算成本并报价
预付款	收到订单后，做形式发票并要求支付预付款
生产	重新画图，下达生产订单；保证产品生产过程中的质量控制
终检	根据C=0 AQL=4%进行成品检测
尾款	根据形式发票要求支付尾款
包装发货	按要求包装发货
单据	发货后按要求提供清关单据



Request Quote

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Contact Name:	
Company Name:	
Job Title:	
Address:	
City:	
State/Province:	
Zip:	
Country:	
Email:	
Phone:	
Fax:	
Drawing:	Attached by email
Inquiry Details:	

Please fill in the table above and send your inquiry to sales@bright-tools.com.
Thank you.